



RAILWAY RECRUITMENT BOARDS
रेलवे भर्ती बोर्ड

RRB Group D 2018

Level-1 Posts | CEN 02/2018

ENGLISH ANSWER KEY

Official Answer Key

All 12 Shifts · 17-09-2018 to 10-12-2018

Questions	100
Marking	+1 correct / -1/3 wrong
Duration	90 minutes
Sections	Maths 25 · Reasoning 30 · Science 25 · GA 20

Every paper is set out as the official RRB response sheet, from its original question images, with the official answer key marked. No candidate details are included.

English edition: 12 of the roughly 152 shifts (only the shifts with a saved sheet in English). Questions in RRB's own order; options in RRB's own order. 31 dropped questions printed with RRB's note and no tick. 2 questions without a saved key (noted). 8 shifts miss 98 questions in all (saved only in the other language), e.g. 25-09-2018 12:30 PM 58/100, 10-12-2018 9:00 AM 70/100.

HOW TO USE THIS BOOK

- 1 Open the INDEX on the next page.
- 2 Click any row to jump straight to that date and shift.
- 3 The correct option is ticked in green; the other options are crossed in red.
- 4 Use the bookmarks panel of your PDF reader to move between shifts.

Blackbook

Score & Rank Calculator · rank.qmaths.in

Compiled 01 November 2026

INDEX · Click any row to open that paper

RRB Group D 2018 (English) · 12 shifts

DAY	DATE	SHIFT	TIME	PAGE
Day 1	17-09-2018	Shift 1	09:00 - 10:30	3
Day 1	17-09-2018	Shift 2	16:00 - 17:30	23
Day 2	18-09-2018	Shift 1	09:00 - 10:30	42
Day 3	19-09-2018	Shift 1	12:30 - 14:00	60
Day 4	20-09-2018	Shift 1	09:00 - 10:30	79
Day 5	25-09-2018	Shift 1	12:30 - 14:00	96
Day 6	23-10-2018	Shift 1	09:00 - 10:30	108
Day 7	31-10-2018	Shift 1	12:30 - 14:00	126
Day 8	05-11-2018	Shift 1	16:00 - 17:30	145
Day 9	27-11-2018	Shift 1	09:00 - 10:30	165
Day 10	04-12-2018	Shift 1	09:00 - 10:30	185
Day 11	10-12-2018	Shift 1	09:00 - 10:30	204



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	17/09/2018
Test Time	9:00 AM - 10:30 AM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 $\frac{2}{3}, \frac{8}{9}, \frac{10}{27}, \frac{32}{81}$ का म.स.प. है:

- Ans
- ☒ A. $\frac{160}{81}$
 - ☒ B. $\frac{160}{3}$
 - ☒ C. $\frac{2}{81}$
 - ☒ D. $\frac{2}{3}$

Q.2 The HCF of two co-prime numbers is:

- Ans
- ☒ A. 1
 - ☒ B. 0
 - ☒ C. 2
 - ☒ D. the product of the co-primes

Q.4 Which of the following is true?

- Ans
- ☒ A. $\frac{9}{16} = \frac{13}{24}$
 - ☒ B. $\frac{9}{16} < \frac{13}{24}$
 - ☒ C. $\frac{9}{16} > \frac{13}{24}$
 - ☒ D. $\frac{9}{16} \leq \frac{13}{24}$

Q.5 $56 \div \frac{1}{3} \{15 + 12 - (9 + 6 - \overline{5 + 7})\} = ?$

- Ans
- ☒ A. 12
 - ☒ B. 9
 - ☒ C. 8
 - ☒ D. 7

Q.6 What is the value of the expression?

$$\frac{(a-b)^2 + (b-c)^2 + (c-a)^2}{3(a-b)(b-c)(c-a)} = ?$$

- Ans ☒ A. 1
☐ B. 4
☐ C. 0
☐ D. 2

Q.7 If the number $x4461$ is divisible by 11, what is the face value of x ?

- Ans ☒ A. 5
☐ B. 4
☐ C. 3
☐ D. 2

Q.8 Which of the following is a perfect cube?

- Ans ☐ A. 8000
☐ B. 9261
☐ C. 9999
☐ D. 9000

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.9 ₹ 720 was divided among A, B, C, D, E. The sum received by them was in ascending order and in Arithmetic Progression. E received ₹ 40 more than A. How much did B receive?

- Ans ☐ A. ₹ 124
☒ B. ₹ 134
☐ C. ₹ 144
☐ D. ₹ 154

Q.10 Anurag loses one-seventh of the cost by selling a pen for ₹ 144. If the pen is sold for ₹ 189, what is the gain percent?

- Ans ☐ A. 14%
☒ B. 12.5%
☐ C. 11%
☐ D. 11.5%

Q.11 A TV set is being sold for ₹ X in Delhi. A dealer went to Chandigarh and bought the TV at 20% discount (from the price of Delhi). He spent ₹ 600 on transport. Thus he sold the set in Delhi for ₹ X making $\left(\frac{100}{7}\right)\%$ profit. What is the value of X ?

- Ans ☐ A. ₹ 9600
☐ B. ₹ 8800
☒ C. ₹ 8000
☐ D. ₹ 7200

Q.12 The compound interest on ₹ 1,60,000 for 2 years at 10% per annum when compounded semi-annually is:

- Ans**
- ✓ A. ₹ 34,481
 - ✗ B. ₹ 34,480
 - ✗ C. ₹ 34,400
 - ✗ D. ₹ 30,000

Q.13 If a driver drives a car 15m/s then how much distance is covered by him in 3 hours 20 mins?

- Ans**
- ✗ A. 150 km
 - ✗ B. 200 km
 - ✓ C. 180 km
 - ✗ D. 165 km

Q.15 Rohan and Rohit together can do a certain job in 10 days while Rohan alone can do the same job in 15 days. How many days Rohit alone will do the same job?

- Ans**
- ✗ A. 35 days
 - ✓ B. 30 days
 - ✗ C. 32 days
 - ✗ D. 25 days

Q.16 Two inlet pipes, A and B, can fill an empty cistern in 22 and 33 hours, respectively. They were opened at the same time, but pipe A had to be closed 3 hours before the cistern was full. How many hours in total did it take the two pipes to fill the cistern?

- Ans**
- ✗ A. 14.2
 - ✓ B. 15
 - ✗ C. 16.2
 - ✗ D. 16

Q.17 A clock is fixed on a horizontal table. At 3 pm its minute hand is pointing towards North. At 3.40 pm, the minute hand will point towards?

- Ans**
- ✗ A. South-west
 - ✗ B. South-east
 - ✓ C. 60° west of south
 - ✗ D. 60° south of west

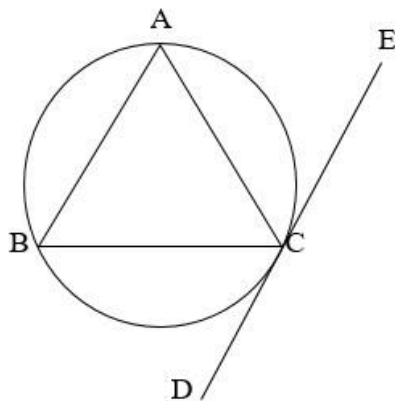
Q.19 On what dates of March 2005 did Friday fall?

- Ans**
- ✓ A. 4, 11, 18 and 25
 - ✗ B. 5, 12, 19, and 26
 - ✗ C. 6, 13 20 and 27
 - ✗ D. 3, 10, 17 and 24

Q.20 It was Monday on 1st January 2018. What was the day of the week on 1st January 2010?

- Ans**
- ✓ A. Friday
 - ✗ B. Monday
 - ✗ C. Tuesday
 - ✗ D. Thursday

Q.21 Refer to the given figure and answer the question that follows.



If AB is parallel to EC and $\angle BCD = 72^\circ$, then what is the value of $\angle BAC$?

- Ans
- ☒ A. 67°
 - ☒ B. 75°
 - ☒ C. 72°
 - ☒ D. 73°

Q.22 $\frac{\sin A + \sin B}{\cos A - \cos B} + \frac{\cos A + \cos B}{\sin A - \sin B} = ?$

- Ans
- ☒ A. 0
 - ☒ B. $\sin A \cos B$
 - ☒ C. $\cos A \cos B$
 - ☒ D. $\tan A \tan B$

Q.23 If $\sec^4 \theta - \sec^2 \theta = 3$ then the value of $\tan^4 \theta + \tan^2 \theta$ is:

- Ans
- ☒ A. 3
 - ☒ B. 4
 - ☒ C. 6
 - ☒ D. 8

Q.24 The area of the triangle whose vertices are given by (1, 2), (-4, -3) and (4, 1) is:

- Ans
- ☒ A. 20 sq. units
 - ☒ B. 10 sq. units
 - ☒ C. 14 sq. units
 - ☒ D. 7 sq. units

Q.25 यदि $(\cos^2 \theta + \frac{1}{\operatorname{cosec}^2 \theta}) + 17 = x$ है, तो x^2 का मान क्या होगा?

- Ans
- ☒ A. 16
 - ☒ B. 18
 - ☒ C. 324
 - ☒ D. 256

Q.26 Choose the person who does NOT belong to the group.

- Ans**
- ☒ A. Albert Einstein
 - ☒ B. Thomas A Edison
 - ☒ C. Alexander Graham Bell
 - ☒ D. Virat Kohli

Q.27 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

- All petals are flowers.
- Some petals are yellow.
- All yellows are flowers.

Conclusions:

1. All flowers are yellow.
2. All yellows are petals.

- Ans**
- ☒ A. Only conclusion 2 follows
 - ☒ B. Both the conclusions follow
 - ☒ C. Only conclusion 1 follows
 - ☒ D. None of the conclusions follow

Q.28 Read the statements and conclusions below.

Statements:

- No cows are cats
- All cats have mustache

Conclusions:

1. Some cows are cats
2. Some cows have mustache

Which conclusion(s) follow(s) the given statement?

- Ans**
- ☒ A. Only conclusion 2 follows
 - ☒ B. All the conclusions follow
 - ☒ C. Only conclusion 1 follows
 - ☒ D. No conclusion follows

Q.30 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

- All cars are Jeeps.
- All Jeeps are four-wheelers.

Conclusions:

1. All four-wheelers are cars.
2. Some four-wheelers are Jeeps.

Ans ✓ **A.** Only conclusion 2 follows.

✗ **B.** All the conclusions follow.

✗ **C.** Only conclusion 1 follows.

✗ **D.** Neither conclusion follows.

Q.32 Consider the given statement to be true even if it seems to be at variance with the commonly known facts and decide which of the given conclusions logically follow(s) from the statement.

Statement:

All that glitters is not gold.

Conclusions:

- I. Things that appear good from outside are not probably good from inside.
- II. We cannot imagine the inner truth behind the glossy outlook of anything or any person from far.

Ans ✗ **A.** Only conclusion I follows.

✗ **B.** Only conclusion II follows.

✗ **C.** Neither conclusion I nor II follows.

✓ **D.** Both conclusions I and II follow.

Q.33 Given is a statement followed by two assumptions numbered I and II. Consider the statement and the following assumptions and decide which of the assumptions is/are implicit in the statement.

Statement:

Making homes energy efficient is important for a sustainable development.

Assumptions:

- I. Replace incandescent light bulbs with compact fluorescent lamps (CFLs) at home.
- II. Plant shade trees and shrubs around your house. Good landscaping (particularly deciduous trees) can save energy, especially if planted on the house's west side.

Ans ✗ **A.** Only assumption I is implicit.

✗ **B.** Only assumption II is implicit.

✗ **C.** Neither assumption I nor II is implicit.

✗ **D.** Both assumptions I and II are implicit.

Note (Qmaths): answer key not saved - the saved response sheet shows no correct option for this question.

Q.34 Consider the given statement and decide which of the following assumptions is/are implicit in the statement.

Statement:

“Every city must house an ecological park”, says the Mayor to his secretary.

Assumptions:

- I. Ecological parks improve green cover.
- II. Ecological parks help reduce air pollution.

Ans

- ☒ A. Only I is implicit.
- ☒ B. Only II is implicit.
- ☒ C. Neither I nor II is implicit.
- ☒ D. Both I and II are implicit.

Q.36 Find the next letter in the following series.

C, D, F, I, ?

Ans

- ☒ A. M
- ☒ B. N
- ☒ C. G
- ☒ D. P

Q.37 Find the next term in the following series.

5I, 7J, 11L, 17O, ?

Ans

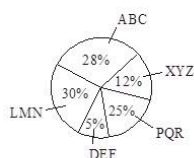
- ☒ A. 18C
- ☒ B. 20P
- ☒ C. 25Y
- ☒ D. 25S

Q.39 Find out which of the following are twin primes.

Ans

- ☒ A. (3, 7)
- ☒ B. (43, 47)
- ☒ C. (37, 41)
- ☒ D. (71, 73)

- Q.41** The given pie chart shows information about the mobile phone manufacturing companies in India. The total number of mobile phone units manufactured is 12,40,000.



How many units of mobile phones were manufactured by company 'LMN'?

- Ans**
- ☒ A. 6,12,000
 - ☒ B. 3,72,000
 - ☒ C. 12,40,000
 - ☒ D. 6,20,000

- Q.42** You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

What is the total weight of 20 cartons of Vegetables? Each of them weighs equal.

Statements:

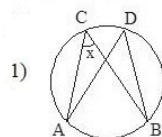
1. Of the first 10 boxes, one-third of each box weighs 10 kg
2. The total weight of 6 boxes is 40 kg more than the total weight of 4 boxes

- Ans**
- ☒ A. Statement 1 and 2 are not sufficient
 - ☒ B. Statement 1 alone is sufficient
 - ☒ C. Statement 2 alone is sufficient
 - ☒ D. Both Statements 1 and 2 alone are sufficient

- Q.43** Read the given question and decide which of the following information is sufficient to answer the question.

What is the value of $\angle ACB$?

Information:

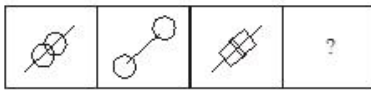


2) $\angle D = 60^\circ$

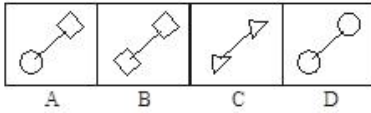
- Ans**
- ☒ A. Only 1 is sufficient.
 - ☒ B. Only 2 is sufficient.
 - ☒ C. Both 1 and 2 are sufficient.
 - ☒ D. Either 1 or 2 is sufficient.

Q.44 Which answer figure will come next in the given problem figure series?

Problem figures:



Answer figures:



Ans ☒ A. A

☒ B. B

☒ C. C

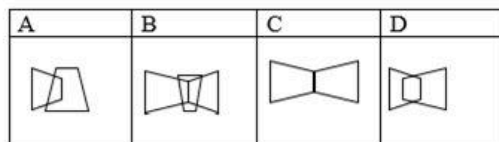
☒ D. D

Q.45 Which of the option figures bears the closest resemblance to the question figure?

Problem Figure:



Answer Figures:



Ans ☒ A. A

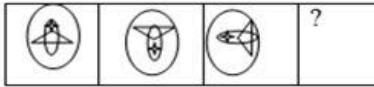
☒ B. B

☒ C. C

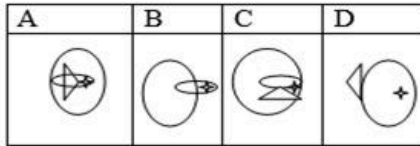
☒ D. D

Q.46 Select the option that can replace the question mark (?) in the following series.

Problem Figure:



Answer Figures:



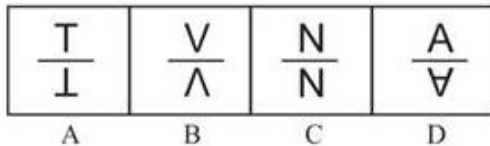
Ans ☒ A. A

☐ B. D

☐ C. C

☐ D. B

Q.47 Find the odd one out.



Ans ☐ A. A

☐ B. B

☒ C. C

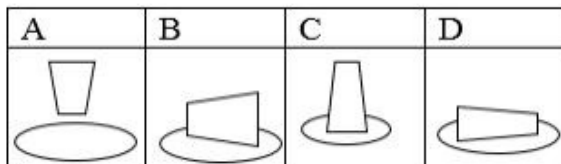
☐ D. D

Q.48 Which pattern resembles closer to?

Problem Figure:



Answer Figures:



Ans ☒ A. A

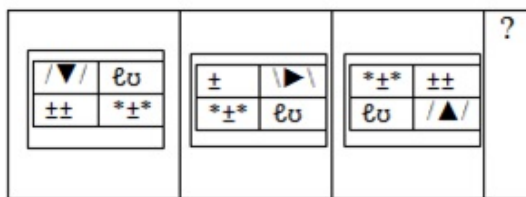
☒ B. B

☒ C. C

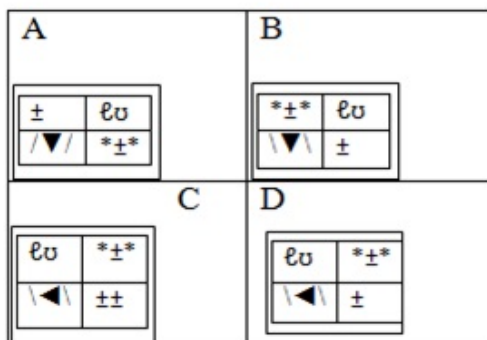
☒ D. D

Q.49 Which of the option figures comes next?

Problem Figure:



Answer Figures:



Ans ☒ A. A

☒ B. B

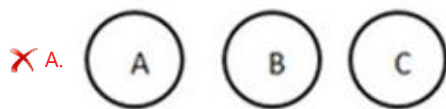
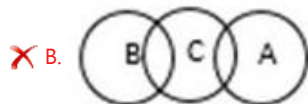
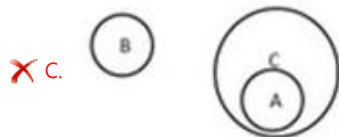
☒ C. C

☒ D. D

Q.50 Which of the following Venn diagrams correctly represents the relationship between the given classes?

- A) Whale
- B) Ship
- C) Ocean

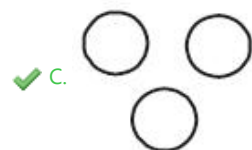
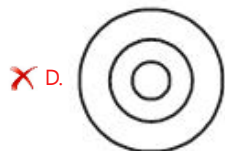
Ans



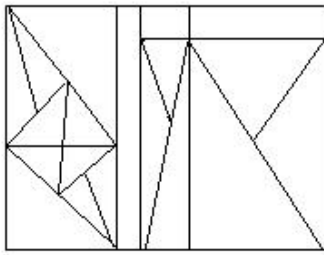
Q.51 Choose the most suitable Venn diagram for the following words.

Horse, Monkey, Tiger

Ans



Q.52 How many triangles are there in the following figure?



- Ans
- ☐ A. 23
 - ☐ B. 24
 - ☐ C. 25
 - ☒ D. 27

Q.53 Which of the answer figures is formed from the two shapes given the problem figure?

Problem figure:



Answer figures:

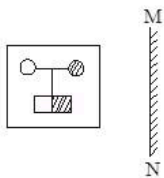
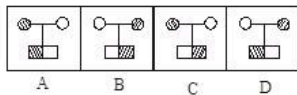
A	B	C	D

- Ans
- ☐ A. A
 - ☒ B. B
 - ☐ C. C
 - ☐ D. D

Q.54 If South becomes South-West, then what will North become?

- Ans
- ☐ A. North-West
 - ☒ B. North-East
 - ☐ C. South-East
 - ☐ D. South-West

Q.55 Choose the mirror image for the following figure when the mirror is kept at the MN line.



- Ans**
- ☒ A. A
 - ☐ B. B
 - ☐ C. C
 - ☐ D. D

Section : General Science

Q.56 As long as an unbalanced force is applied to a body ,there is a continuous change in its:

- Ans**
- ☐ A. shape
 - ☐ B. mass
 - ☐ C. weight
 - ☒ D. speed

Q.57 The force of gravity acting on an object is also known as _____.

- Ans**
- ☒ A. weight
 - ☐ B. acceleration
 - ☐ C. mass
 - ☐ D. impulse

Q.58 The mass of the Earth is:

- Ans**
- ☐ A. 6×10^{-24} kg
 - ☒ B. 6×10^{24} kg
 - ☐ C. 6×10^{23} kg
 - ☐ D. 6×10^{-23} kg

Q.61 A force increases the speed of a 1.0 kg object from 4 m/s to 8 m/s. The work done by the force will be _____.

- Ans**
- ☐ A. 8 J
 - ☐ B. 16 J
 - ☒ C. 24 J
 - ☐ D. 32 J

Q.62 When a body moves on a circular path, the force that acts on the revolving body towards the center is called:

- Ans**
- ☒ A. gravitational force
 - ☒ B. centripetal force
 - ☒ C. simple force
 - ☒ D. angular force

Q.63 In which of the following media does sound travel the fastest?

- Ans**
- ☒ A. Solids
 - ☒ B. Liquids
 - ☒ C. Gases
 - ☒ D. Vacuum

Q.64 Which of the following animals can produce ultrasound?

- Ans**
- ☒ A. Shark
 - ☒ B. Porpoises
 - ☒ C. Elephant
 - ☒ D. Moths

Q.65 _____ is the amount of work done in carrying a charge of 4 C across two points having a potential difference of 18 V.

- Ans**
- ☒ A. 4.5 J
 - ☒ B. 72 J
 - ☒ C. 24 J
 - ☒ D. 7.2 J

Q.66 The resistance of a conductor does NOT depend on which of the following factors?

- Ans**
- ☒ A. Length
 - ☒ B. Area of cross section
 - ☒ C. Material
 - ☒ D. Pressure

Q.67 The chemical symbol of which of the following elements is derived from Latin?

- Ans**
- ☒ A. Aluminium
 - ☒ B. Iron
 - ☒ C. Carbon
 - ☒ D. Chlorine

Q.68 What will be the direction of the magnetic field at a point directly below a horizontal power line with the current flowing from east to west when viewed from the west end?

- Ans**
- ☒ A. Clockwise
 - ☒ B. Anticlockwise
 - ☒ C. Perpendicular to the flow of the current
 - ☒ D. Parallel to the flow of the current

Q.69 The ratio of the mass of hydrogen to the mass of oxygen is always _____.

- Ans
- ☐ A. 8 : 1
 - ☒ B. 1 : 8
 - ☐ C. 1 : 2
 - ☐ D. 2 : 1

Q.70 How many water molecules are present in one molecule of washing soda?

- Ans
- ☐ A. 5
 - ☐ B. 7
 - ☐ C. 8
 - ☒ D. 10

Q.71 Which of the following options is an example of a salt that gives an aqueous solution of pH less than 7?

- Ans
- ☐ A. Sodium chloride
 - ☒ B. Ammonium chloride
 - ☐ C. Sodium carbonate
 - ☐ D. Sodium bicarbonate

Q.72 Which of the following can exist in solid, liquid and gaseous forms?

- Ans
- ☐ A. Metalloids
 - ☐ B. Metals
 - ☒ C. Non-metals
 - ☐ D. Inert elements

Q.73 Which of the following metals reacts with steam to form metal oxide and hydrogen?

- Ans
- ☐ A. Lead
 - ☐ B. Copper
 - ☐ C. Silver
 - ☒ D. Aluminium

Q.74 In the modern periodic table, which group elements have a complete outer shell?

- Ans
- ☒ A. 18th
 - ☐ B. 17th
 - ☐ C. 16th
 - ☐ D. 15th

Q.75 Generally, the valency of electropositive elements is:

- Ans
- ☐ A. 0,1,2
 - ☒ B. 1,2,3
 - ☐ C. 4,3,2
 - ☐ D. 2,1,0

Q.76 Which of the following animals is warm-blooded?

- Ans
- ☐ A. Fish
 - ☐ B. Toad
 - ☐ C. Crocodile
 - ☒ D. Pigeon

Q.77 The flexibility in plants is due to _____ tissue.

- Ans
- ☐ A. phloem
 - ☐ B. xylem
 - ☐ C. sclerenchyma
 - ☒ D. collenchyma

Q.78 In which of the following processes is oxygen released into the air?

- Ans
- ☐ A. Respiration
 - ☐ B. Transpiration
 - ☒ C. Photosynthesis
 - ☐ D. Excretion

Q.79 A type of reproduction in which a part of a plant body develops into a new individual is called _____.

- Ans
- ☐ A. sexual propagation
 - ☒ B. vegetative propagation
 - ☐ C. fission
 - ☐ D. regeneration

Q.80 The fertilised egg, the zygote, gets implanted in the:

1

- Ans
- ☒ A. uterus
 - ☐ B. vagina
 - ☐ C. cervix
 - ☐ D. ovary

Section : General Awareness and Current Affairs

Q.81 Name the badminton player who won his maiden Super Series title in Singapore in April 2017?

- Ans
- ☐ A. Srikanth Kidambi
 - ☒ B. Sai Praneeth
 - ☐ C. Prannoy Kumar
 - ☐ D. Parupalli Kashyap

Q.82 How many medals did India win in the US Open Karate Championship held in Las Vegas in April 2017?

- Ans
- ☐ A. 15
 - ☐ B. 12
 - ☐ C. 17
 - ☒ D. 16

Q.83 Which of the following sports is Satyawart Kadiyan related to?

- Ans**
- ☐ A. Hockey
 - ☒ B. Wrestling
 - ☐ C. Football
 - ☐ D. Kabaddi

Q.84 Who portrayed the character of Allauddin Khilji in the controversial movie 'Padmavat'?

- Ans**
- ☐ A. Ranbir Kapoor
 - ☒ B. Ranveer Singh
 - ☐ C. Shahid Kapoor
 - ☐ D. Rana Daggubati

Q.85 What was the theme of the 2016 Indian Film Festival of Melbourne (IFFM) at which Sonam Kapoor won the Best Actress Award for her performance in Neerja Bhanot's biopic 'Neerja'?

- Ans**
- ☐ A. Celebration of Life
 - ☐ B. Beti Bachao
 - ☐ C. Enrichment of Women Status
 - ☒ D. Female Empowerment

Q.86 Which of the following country hosts the Academy (Oscar) Awards for excellence in cinema every year?

- Ans**
- ☐ A. UK
 - ☒ B. USA
 - ☐ C. France
 - ☐ D. Canada

Q.87 Who has been chosen for the RedInk Award for Lifetime Achievement in Journalism for 2018?

- Ans**
- ☐ A. Arun Shourie
 - ☒ B. Mark Tully
 - ☐ C. Barkha Dutt
 - ☐ D. N. Ram

Q.88 Identify the award which recognises workers for their distinguished performance, innovative ability, outstanding contribution in the field of productivity and exhibition of exceptional courage and presence of mind.

- Ans**
- ☒ A. Shram Awards
 - ☐ B. Padma Awards
 - ☐ C. Krishi Awards
 - ☐ D. Dronacharya Award

Q.89 President Ram Nath Kovind has felicitated _____ exceptional women achievers at Rashtrapati Bhawan in New Delhi. These 'FIRST LADIES' are those who are first to set milestone of achievement in their respective fields.

- Ans**
- ☒ A. 112
 - ☐ B. 111
 - ☐ C. 113
 - ☐ D. 114

Q.90 Which of the following state governments launched the 'Quit India 2-from Swaraj to Suraaj' initiative at the historic August Kranti Maidan in August 2016?

- Ans**
- ☒ A. Haryana
 - ☒ B. Maharashtra
 - ☒ C. Madhya Pradesh
 - ☒ D. West Bengal

Q.91 What is 'Hausala 2017', which was celebrated from 16th November to 20th November 2017?

- Ans**
- ☒ A. Celebration of children's rights
 - ☒ B. Celebration of women's rights
 - ☒ C. Celebration of senior citizen's rights
 - ☒ D. Celebration of transgender rights

Q.92 Which union minister has launched PowerTex India scheme to boost powerloom sector?

- Ans**
- ☒ A. Nitin Gadkari
 - ☒ B. Smriti Irani
 - ☒ C. Maneka Gandhi
 - ☒ D. Ravi Shankar Prasad

Q.93 Which of the following is known as the Upper house of the Indian Parliament?

- Ans**
- ☒ A. Lok Sabha
 - ☒ B. Rajya Sabha
 - ☒ C. Supreme court
 - ☒ D. PMO

Q.94 Dayanand Saraswati was the founder of which of the following missions?

- Ans**
- ☒ A. Chinmaya Mission
 - ☒ B. Arya Samaj
 - ☒ C. Brahmo Samaj
 - ☒ D. Prarthana Samaj

Q.95 The Hundred Years' War was fought between which two countries?

- Ans**
- ☒ A. England and France
 - ☒ B. Germany and France
 - ☒ C. England and Germany
 - ☒ D. England and Italy

Q.96 Which of the following is known as 'the Princess of Hill Stations'?

- Ans**
- ☒ A. Darjeeling
 - ☒ B. Dehradun
 - ☒ C. Ooty
 - ☒ D. Kodaikanal

Q.97 Which of the following countries has the longest coastline in the world?

- Ans**
- ☐ A. Australia
 - ☐ B. Norway
 - ☒ C. Canada
 - ☐ D. Indonesia

Q.98 Which is the second company to hit \$900 billion market capitalization after Apple?

- Ans**
- ☐ A. Google
 - ☒ B. Amazon
 - ☐ C. Facebook
 - ☐ D. Walmart

Q.99 A committee under the chairmanship of Uday Kotak was constituted in 2017 to improve efficiency in:

- Ans**
- ☐ A. customer satisfaction
 - ☐ B. labour management relations
 - ☒ C. corporate governance
 - ☐ D. government policies

Q.100 Name the first city in India to use a robot to control traffic.

- Ans**
- ☐ A. Jaipur
 - ☐ B. Varanasi
 - ☒ C. Indore
 - ☐ D. Kochi



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	17/09/2018
Test Time	4:00 PM - 5:30 PM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 $\frac{2^8-1}{(\sqrt{2})^{12}} = ?$

- Ans
- ☐ A. $\frac{223}{64}$
 - ☐ B. $\frac{127}{32}$
 - ☒ C. $\frac{255}{64}$
 - ☐ D. $\frac{196}{65}$

Q.2 $[\{(161 + (19 - 2) + 1)\} - 3] = \underline{\hspace{2cm}}$

- Ans
- ☐ A. 174
 - ☒ B. 176
 - ☐ C. 172
 - ☐ D. 171

Q.3 Find the difference between 0.02 and 0.002.

- Ans
- ☐ A. 1.8
 - ☐ B. 0.0018
 - ☐ C. 0.18
 - ☒ D. 0.018

Q.4 The value of half of the HCF of 36 and 144 is:

- Ans
- ☐ A. 36
 - ☐ B. 144
 - ☒ C. 18
 - ☐ D. 72

Q.5 What is the fraction which, when taken away from $\frac{1}{2}$, gives $\frac{3}{4}$?

- Ans
- ☐ A. $-\frac{1}{3}$
 - ☒ B. $-\frac{1}{4}$
 - ☐ C. $\frac{1}{4}$
 - ☐ D. $\frac{1}{3}$

Q.6 A, B, C have 152, 171 and 266 marbles, respectively. They decide to divide these marbles in parts such that all parts have the same number of marbles. Also, they cannot give or take the marbles. Find the minimum possible number of parts that can be made.

- Ans
- ☐ A. 49
 - ☐ B. 196
 - ☐ C. 23
 - ☒ D. 31

Q.7 Which of the following numbers is perfectly divisible by 4?

- Ans
- ☐ A. 5632654
 - ☐ B. 7253566
 - ☐ C. 4187290
 - ☒ D. 6542176

Q.8 Find the area of the triangle formed with the three straight lines represented by:

i) $x + y = 0$; ii) $3x = 5y$; and iii) $y = 3x - 12$

- Ans
- ☐ A. 15 unit
 - ☐ B. 20 unit
 - ☐ C. 16 unit
 - ☒ D. 12 unit

Q.9 If $p : 18 :: 5 : 3$, then what is the value of p?

- Ans
- ☐ A. 50
 - ☐ B. 60
 - ☐ C. 25
 - ☒ D. 30

Q.10 35% of a number is 91. What is the number?

- Ans
- ☐ A. 245
 - ☐ B. 252
 - ☒ C. 260
 - ☐ D. 266

Q.11 In a shopping mall the cost of an article was increased by 10% and then it was decreased by 10%. The net increase or decrease percent is:

- Ans**
- ☒ A. 1.5% decrease
 - ☒ B. 1.5% increase
 - ☒ C. 1% decrease
 - ☒ D. 1% increase

Q.12 The selling price of an item inclusive of a 12% profit was ₹ 616. What would the percentage loss be if the item was sold for ₹ 462?

- Ans**
- ☒ A. 16
 - ☒ B. 14
 - ☒ C. 18
 - ☒ D. 12

Q.13 Ratio of days required by A and B to complete some work is 3 : 5. They require $5\frac{3}{8}$ days to complete the work. In how many days can A alone complete twice the work?

- Ans**
- ☒ A. 18 days
 - ☒ B. 9 days
 - ☒ C. 15 days
 - ☒ D. 30 days

Q.14 A man travels by train and car to reach his office. If he travels by car for 10 km and the remaining by train, he reaches office in t hours. Doing exactly the opposite, he reaches office in $(t + 0.5)$ hours. If the speeds of the train and the car are 50 km/h and 40 km/h, respectively, find the distance he travels to reach his office.

- Ans**
- ☒ A. 120 km
 - ☒ B. 80 km
 - ☒ C. 100 km
 - ☒ D. 140 km

Q.15 It takes 15 hours for a boat to reach its destination and return to its initial place, if the river has no flow. For the same journey it requires 16 hours if the river is flowing. The difference between speeds of boat and river is 15 km/hr. Find the speed of the flow of the river.

- Ans**
- ☒ A. 4 km/hr
 - ☒ B. 10 km/hr
 - ☒ C. 6 km/hr
 - ☒ D. 5 km/hr

Q.16 Inlet Pipe A can fill a cistern in 32 hours, whereas outlet Pipe B can drain the filled cistern in 40 hours. The two pipes are opened together when the cistern is empty, but the outlet pipe is closed when the cistern is three-quarters full. How many hours will it take in all to fill the cistern?

- Ans**
- ☒ A. 62
 - ☒ B. 128
 - ☒ C. 120
 - ☒ D. 80

Q.17 The ratio of the present ages of X and Y is 3 : 4. Five years ago, the ratio of their ages was 5 : 7. What is the present age of Y?

- Ans**
- ☒ A. 30 years
 - ☒ B. 40 years
 - ☒ C. 50 years
 - ☒ D. 60 years

Q.18 Two pipes fill a tank when working individually in 5 and 8 hours, respectively while a third pipe can drain the filled tank in 3.2 hours. If all the three pipes are turned on at the same time when the tank is empty, how long will it take to fill the tank completely?

- Ans**
- ☒ A. 3 days 8 hours
 - ☒ B. 9 hours 48 mins
 - ☒ C. 6 hours 12 mins
 - ☒ D. 3 days 3 hours 36 mins

Q.19 Two valves X and Y can separately fill a tank in 20 hours and 30 hours, respectively. Both the valves are opened to fill the tank, but when the tank is one-third full the valve is closed. A leak develops in the tank through which one-third of the water supplied by both the valves leaks out. The leak is immediately closed and the two valves are again opened. What is the total time taken to fill the tank?

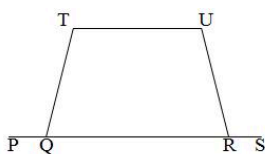
- Ans**
- ☒ A. 16 hours
 - ☒ B. 14 hours
 - ☒ C. 12 hours
 - ☒ D. 10 hours

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.20 What is the measure of the smaller of the two angles formed between the hour hand and the minute hand of a clock when it is 6:51 p.m.?

- Ans**
- ☒ A. 101°
 - ☒ B. 100°
 - ☒ C. 100.5°
 - ☒ D. 101.5°

Q.21



दिए गए आरेख में, $TU \parallel PS$ है और बिंदु Q और R, PS पर स्थित हैं। साथ ही, $\angle PQT = x^\circ$, $\angle RQT = (x - 50)^\circ$ तथा $\angle TUR = (x + 25)^\circ$ हैं। $\angle URS$ की माप क्या है?

- Ans**
- ☒ A. 115°
 - ☒ B. 140°
 - ☒ C. 135°
 - ☒ D. 130°

Q.22 The sum of two numbers is 9. The sum of their reciprocals is $\frac{1}{2}$. One of the numbers is:

- Ans**
- ☒ A. 6
 - ☒ B. 4
 - ☒ C. 5
 - ☒ D. 2

Q.23 If $\sin\theta - \cos\theta = 0$, then the value of $\sin^4\theta + \cos^4\theta + \tan^2\theta$ is:

- Ans
- ☒ A. 2
 - ☒ B. $\frac{7}{4}$
 - ☒ C. $\frac{3}{2}$
 - ☒ D. $\frac{5}{4}$

Q.24 If $\cot^4\theta + \cot^2\theta = 3.6$, then $\operatorname{cosec}^4\theta - \operatorname{cosec}^2\theta = ?$

- Ans
- ☒ A. 0.6
 - ☒ B. 1.8
 - ☒ C. 2.4
 - ☒ D. 3.6

Q.25 Find the ratio in which line $3x + 2y = 17$ divides the line segment joined by points (2, 5) and (5, 2).

- Ans
- ☒ A. 1 : 2
 - ☒ B. 2 : 5
 - ☒ C. 3 : 4
 - ☒ D. 1 : 3

Section : General Intelligence and Reasoning

Q.26 Choose the person who does NOT belong to the group.

- Ans
- ☒ A. Vikram Sarabhai
 - ☒ B. Arvind Kejriwal
 - ☒ C. Lalu Prasad Yadav
 - ☒ D. Indira Gandhi

Q.27 Lock is related to door in the same way as password is related to _____
9

- Ans
- ☒ A. Computer
 - ☒ B. Verify
 - ☒ C. Gate
 - ☒ D. Wildcard letters

Q.28 X shows a picture to his friend Z and says, "This is my wife's daughter's husband's son." The person in the picture is X's _____

- Ans
- ☒ A. Uncle
 - ☒ B. Granddaughter
 - ☒ C. Grandson
 - ☒ D. Father-in-law

Q.29 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

- All liquids are clear.
- All clear are chemicals.

Conclusions:

1. Some chemicals are liquids.
2. Some clear are liquids.

Ans ☒ A. Only conclusion 2 follows.
☒ B. All the conclusions follow.
☒ C. Only conclusion 1 follows.
☒ D. No conclusion follows.

Q.30 Read the given statements and the following conclusions carefully and select which of the conclusions logically follow(s) from the statements.

Statements:

- Some scooters are vehicles.
- All vehicles are fast.

Conclusions:

1. Some scooters are fast.
2. All fast are vehicles.

Ans ☒ A. Only conclusion 2 follows.
☒ B. All the conclusions follow.
☒ C. Only conclusion 1 follows.
☒ D. No conclusions follow.

Q.31 If AGE is coded as EKI, then how will PACE be coded?

Ans ☒ A. TBGI
☒ B. TEGI
☒ C. TDGI
☒ D. TFGI

Q.33 Given is a statement followed by two assumptions numbered I and II. Consider the statement and the following assumptions and decide which of the assumptions is/are implicit in the statement.

Statement:

There are many great people who have sacrificed their lives for bringing freedom to our country.

Assumptions:

- I. One has to die to bring freedom.
- II. We live and die once.

Ans ☒ A. Only assumption I is implicit.
☒ B. Only assumption II is implicit.
☒ C. Neither assumption I nor II is implicit.
☒ D. Both assumptions I and II are implicit.

Q.36 Find the next letter in the following series.

S, A, H, N, S, ?

- Ans
- ☐ A. Y
 - ☐ B. T
 - ☐ C. Q
 - ☒ D. W

Q.37 Find the next term in the following series.

4, B, 6, C, 5, D, 7, E, ?

- Ans
- ☐ A. 10
 - ☐ B. 12
 - ☐ C. 9
 - ☒ D. 6

Q.38 Find the next term in this series.

2R, 9U, 16X, _____.

- Ans
- ☐ A. 20A
 - ☐ B. 22B
 - ☒ C. 23A
 - ☐ D. 23B

Q.39 Based on the arithmetic reasoning, find the number that is different from other options in the given list of numbers.

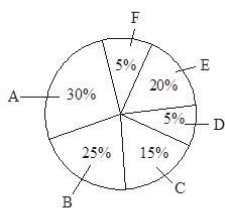
- Ans
- ☐ A. 369
 - ☒ B. 462
 - ☐ C. 427
 - ☐ D. 571

Q.40 The following is the price of Cabbage over 12 months. What is the median price?



- Ans
- ☐ A. 40
 - ☒ B. 50
 - ☐ C. 55
 - ☐ D. 60

- Q.41** The given pie chart shows information about Non-Performing Assets (NPA) processed by the various banks of India till December 2017.



If the total NPAs under all the banks are worth ₹ 300 lakh crores, then NPAs worth how much (in ₹ lakh crores) does Bank 'D' contain till December 2017?

Ans

- ☒ A. 5
☒ B. 10
☒ C. 15
☒ D. 20

- Q.42** A small scale soap business has the following expenses: 10% on marketing, 65% on employees' salary and 25% on raw materials.

If the business pays a total salary of ₹ 65,000, then what is its marketing expense?

Ans

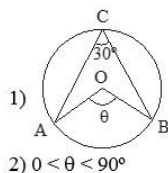
- ☒ A. ₹ 20,000
☒ B. ₹ 40,000
☒ C. ₹ 25,000
☒ D. ₹ 10,000

- Q.43** Read the given question and decide which of the following information is sufficient to answer the question.

Question:

What is the value of θ ?

Information:



Ans

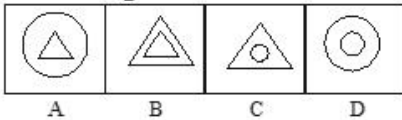
- ☒ A. Only 1 is sufficient.
☒ B. Only 2 is sufficient.
☒ C. Either 1 or 2 is sufficient.
☒ D. Neither 1 nor 2 is sufficient.

Q.44 Which answer figure will come next in the given problem figure series?

Problem figures:



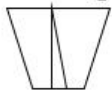
Answer figures:



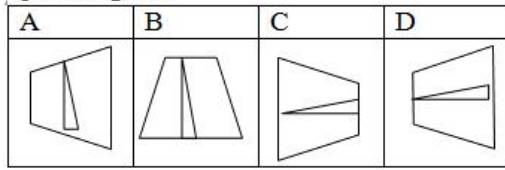
Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.45 Which of the option figures bears the closest resemblance to the question figure?

Question Figure:

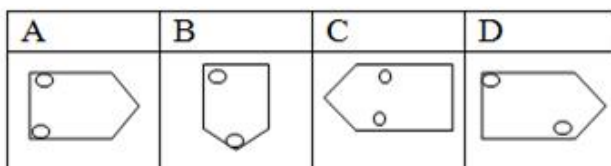


Option Figures:



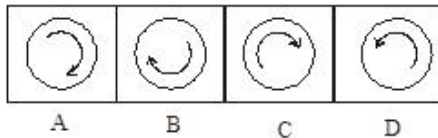
Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.46 Select the pattern from the below given that resembles closest to:



Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.47 Find the odd one out.



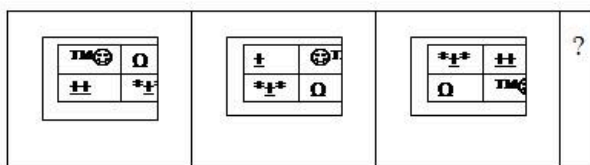
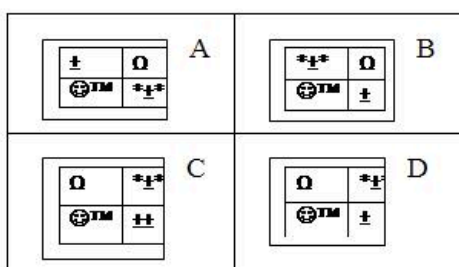
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.48 Which of the following does NOT belong to this group:

A	B	C	D
E1	J2	O3	T5

- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. D
 - ☒ D. C

Q.49 Select the option that can replace the question mark (?) in the following series.

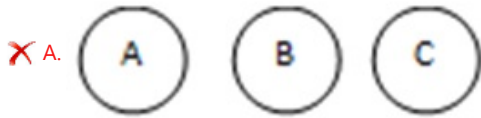
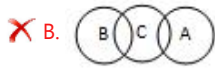
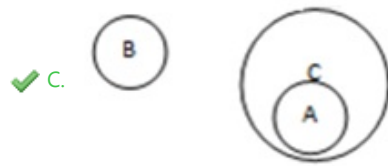
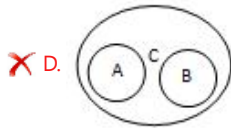


- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.50 Which of the following correctly represents the relationship between

- A) Button
- B) Pen
- C) Shirt ?

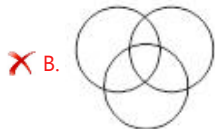
Ans



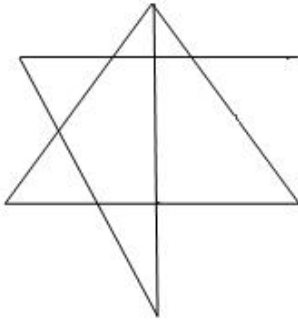
Q.51 Choose the most suitable Venn diagram for the following words.

TV, Camera, Train

Ans



Q.52 How many triangles are there in the following figure?



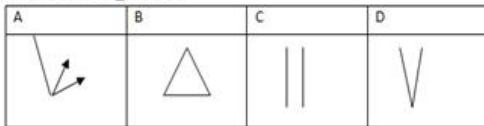
- Ans
- ☒ A. 8
 - ☒ B. 7
 - ☒ C. 6
 - ☒ D. 11

Q.53 Which of the answer figures will come next in following problem figure series?

Problem figure:



Answer figures:

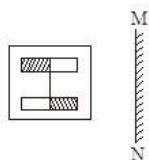
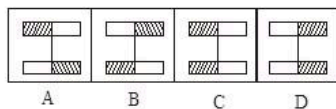


- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.54 Sunil and Manohar are playing carrom. If Sunil faces towards North-East, then his opponent Manohar faces in which direction?

- Ans
- ☒ A. South-East
 - ☒ B. South-West
 - ☒ C. North-West
 - ☒ D. North-East

Q.55 Choose the mirror image for the following figure when the mirror is kept at the MN line.



- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Section : General Science

Q.56 How many moles of Sulphuric acid are present in 25 gms?

- Ans**
- ☒ A. 0.025
 - ☒ B. 0.255
 - ☒ C. 255
 - ☒ D. 25

Q.57 After explosion of a shell, many pieces fly off in different directions. In such a case, what is conserved?

- Ans**
- ☒ A. Potential energy
 - ☒ B. Work
 - ☒ C. Momentum
 - ☒ D. Force

Q.58 The force that a neutron exerts on a proton inside an atom is:

- Ans**
- ☒ A. Nuclear force
 - ☒ B. Gravitational force
 - ☒ C. Tidal force
 - ☒ D. Electrostatic force

Q.59 Sodium hydroxide reacts with _____ to form a solution of table salt.

- Ans**
- ☒ A. Carbon dioxide gas
 - ☒ B. Hydrochloric acid
 - ☒ C. Oxygen gas
 - ☒ D. Sodium chloride solution

Q.60 9800 joule of energy was spent to raise a mass of 70 kg. The mass was raised to a height of:

- Ans**
- ☒ A. - 14 m
 - ☒ B. 14 m
 - ☒ C. - 140 m
 - ☒ D. 140 m

Q.61 _____ is the rate of doing work.

- Ans
- ☐ A. Energy
 - ☐ B. Force
 - ☐ C. Velocity
 - ☒ D. Power

Q.62 A body rolling down on a hill has:

- Ans
- ☐ A. Potential energy only
 - ☐ B. Kinetic energy only
 - ☒ C. Both kinetic energy and potential energy
 - ☐ D. Only friction force

Q.63 Which of the following elements having the given atomic numbers have their chemical properties resembling magnesium?

- Ans
- ☒ A. 4
 - ☐ B. 11
 - ☐ C. 13
 - ☐ D. 19

Q.64 Baking powder is a mixture of _____ and _____.

- Ans
- ☐ A. Sodium hydrogen carbonate, Sulphuric acid
 - ☒ B. Sodium hydrogen carbonate, Tartaric acid
 - ☐ C. Sodium carbonate, Tartaric acid
 - ☐ D. Sodium hydrogen carbonate, Malic acid

Q.65 The suffix attached to a hydrocarbon chain ending with a ketone is ____

- Ans
- ☒ A. -one
 - ☐ B. -ol
 - ☐ C. -oic
 - ☐ D. -al

Q.66 Group _____ contain non-reactive gases.

- Ans
- ☐ A. 17
 - ☒ B. 18
 - ☐ C. 1
 - ☐ D. 7

Q.67 The valency of chlorine with respect to oxygen is ____.

- Ans
- ☐ A. 5
 - ☒ B. 7
 - ☐ C. 2
 - ☐ D. 4

Q.68 The element with atomic number 57 belongs to:

- Ans**
- ☒ A. d-block
 - ☐ B. s-block
 - ☐ C. p-block
 - ☐ D. f-block

Q.69 The angle between displacement and force applied when no work is done is _____.

- Ans**
- ☒ A. 90°
 - ☐ B. 0°
 - ☐ C. 45°
 - ☐ D. 120°

Q.70 Weight of an object on the moon = (_____ $\times$ its weight on Earth)

- Ans**
- ☐ A. $\frac{1}{5}$
 - ☐ B. 6
 - ☐ C. 5
 - ☒ D. $\frac{1}{6}$

Q.71 A particle in the medium completes 40 vibrations in 2.5 s. The frequency of the wave is _____.

- Ans**
- ☐ A. 8 Hz
 - ☒ B. 16 Hz
 - ☐ C. 25 Hz
 - ☐ D. 50 Hz

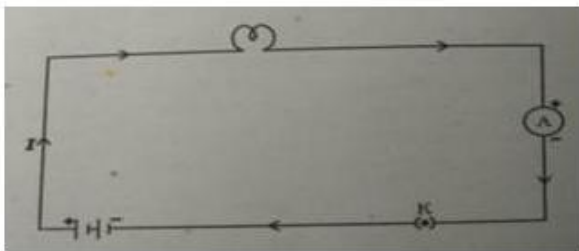
Q.72 A shell of mass 0.04 kg is fired by a gun of mass 120 kg. If the muzzle speed of the shell is 90 m/s, what is the recoil speed of the gun?

- Ans**
- ☒ A. $3 \times 10^{-2} \text{ m/s}$
 - ☐ B. 0.3 m/s
 - ☐ C. $3 \times 10^2 \text{ m/s}$
 - ☐ D. $3 \times 10^{-3} \text{ m/s}$

Q.73 Waves produced at the bottom of the sea due to an explosion are _____.

- Ans**
- ☐ A. Transverse
 - ☐ B. Stationary
 - ☒ C. Longitudinal
 - ☐ D. Both, transverse and longitudinal

Q.74 The flow of _____ is anti-clockwise in the given circuit



- Ans
- ☒ A. Electrons
 - ☐ B. Current
 - ☐ C. Voltage
 - ☐ D. Resistance

Q.75 _____ element has the largest atom and _____ Smallest atom.

- Ans
- ☐ A. Li, O
 - ☐ B. H, O
 - ☐ C. Li, H
 - ☐ D. O, F

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.76 Male germ cells are produced in the _____.

- Ans
- ☒ A. Testes
 - ☐ B. Scrotum
 - ☐ C. Vas deferens
 - ☐ D. Prostrate

Q.77 The _____ cells are loosely packed so that large intercellular spaces are found.

- Ans
- ☐ A. collenchyma
 - ☒ B. parenchyma
 - ☐ C. sclerenchyma
 - ☐ D. phloem

Q.78 The hormone produced in plants due to which the stem bends towards sunlight is _____.

- Ans
- ☐ A. Giberrellins
 - ☒ B. Auxins
 - ☐ C. Cytokinins
 - ☐ D. Ascorbic acid

Q.79 In a dihybrid cross of round green and wrinkled yellow seeds, out of 556 seeds, _____ seeds are round and yellow.

- Ans**
- ☐ A. 108
 - ☐ B. 32
 - ☒ C. 315
 - ☐ D. 101

Q.80 A chemical “_____” is present in the cork cells to make them impervious to gases and water.

- Ans**
- ☒ A. Suberin
 - ☐ B. Chitin
 - ☐ C. Cutin
 - ☐ D. Safranin

Section : General Awareness and Current Affairs

Q.81 The 14th Hockey World Cup will be held in which part of India in 2018?

- Ans**
- ☐ A. Patna
 - ☒ B. Bhubaneswar
 - ☐ C. Jhansi
 - ☐ D. Mumbai

Q.82 Who among the following was the first Indian bowler to record a five-wicket haul in T20 in the history of Indian Cricket?

- Ans**
- ☐ A. Ravindra Jadeja
 - ☐ B. R. Ashwin
 - ☐ C. Ishant Sharma
 - ☒ D. Yuzvendra Chahal

Q.83 Which of the following companies is the official partner for the Hockey Men's World Cup 2018?

- Ans**
- ☐ A. Gujarat Mining Corporation
 - ☐ B. Maharashtra Mining Corporation
 - ☒ C. Odisha Mining Corporation
 - ☐ D. West Bengal Mining Corporation

Q.84 Which of the following awards has 'The English Patient' won?

- Ans**
- ☐ A. The Pulitzer Prize
 - ☐ B. The Warwick Prize for Writing
 - ☐ C. International Rubery Book Award
 - ☒ D. The Golden Man Booker Prize

Q.86 Who is the current Minister of Culture?

- Ans**
- ☐ A. Manohar Parrikar
 - ☒ B. Mahesh Sharma
 - ☐ C. Ravi Shankar Prasad
 - ☐ D. Harshvardhan

Q.87 Who has been re-elected as the International Cricket Council (ICC) Chairman?

- Ans**
- ☒ A. Srinivasan
 - ☒ B. Shashank Manohar
 - ☒ C. Rajeev Shukla
 - ☒ D. Anurag Thakur

Q.88 Which Indian personality was honored with the 2017 Carnegie Medal of Philanthropy?

- Ans**
- ☒ A. Azim Premji
 - ☒ B. Ness Wadia
 - ☒ C. Anil Ambani
 - ☒ D. Ratan Tata

Q.89 Who won the 13th edition of National 'A' Chess Championship for the Visually Challenged 2018?

- Ans**
- ☒ A. Kishan Gangolli
 - ☒ B. Ashvin Makwana
 - ☒ C. Soundarya Kumar Pradhan
 - ☒ D. Charudatta Jadhav

Q.90 The host city for the 8th annual Global Entrepreneurship Summit (GES-2017) was:

- Ans**
- ☒ A. Bengaluru
 - ☒ B. Chennai
 - ☒ C. Hyderabad
 - ☒ D. Mysore

Q.91 Which city hosted 'AROGYA 2017', the first international exhibition and conference on AYUSH and Wellness sector?

- Ans**
- ☒ A. Rishikesh
 - ☒ B. Udaipur
 - ☒ C. Noida
 - ☒ D. New Delhi

Q.92 Conrad Sangma has been sworn-in as the 12th Chief Minister of Meghalaya. Which Lok Sabha constituency does he belong to?

- Ans**
- ☒ A. Rajabala
 - ☒ B. Jowai
 - ☒ C. Tura
 - ☒ D. Mairang

Q.93 As of August 2018, who is the defence minister of India?

- Ans**
- ☒ A. Rajnath Singh
 - ☒ B. Nirmala Sitharaman
 - ☒ C. Sushma Swaraj
 - ☒ D. Nitin Gadkari

Q.95 Which of the following kings built the Konark Sun temple?

- Ans**
- ☐ A. Mahamegha Vahana
 - ☐ B. Vakradeva
 - ☒ C. Narasimhadeva I
 - ☐ D. Kudepasiri

Q.96 The Jayakwadi (Stage-I) Hydroelectric Project is on which river?

- Ans**
- ☒ A. Godavari
 - ☐ B. Ganga
 - ☐ C. Kaveri
 - ☐ D. Indus

Q.97 Which of the following rivers flows across Tibet and is known as Yarlung Tsangpo River?

- Ans**
- ☐ A. Ganga
 - ☒ B. Brahmaputra
 - ☐ C. Sutlej
 - ☐ D. Beas

Q.98 Bangalore Metro Rail Corporation Limited (BMRCL) has signed an MoU with which company for the construction of a station at Konappana Agrahara?

- Ans**
- ☐ A. Google
 - ☐ B. WIPRO
 - ☒ C. Infosys
 - ☐ D. Yahoo

Q.99 Which organisation is entering into a joint venture with Spain's Congelados De Navarra to set up a food processing plant at Ludhiana in Punjab with an investment of ₹ 325 crore?

- Ans**
- ☐ A. NABARD
 - ☐ B. SBI
 - ☐ C. NALCO
 - ☒ D. IFFCO

Q.100 What does the Mangalyaan on the reverse of the Indian ₹ 2,000 banknote depict?

- Ans**
- ☐ A. Indian economic development
 - ☐ B. Indian spacecraft power
 - ☐ C. Technological development of India
 - ☒ D. India's first venture in interplanetary space



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	18/09/2018
Test Time	9:00 AM - 10:30 AM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 $4 + 4.44 + 44.4 + 4.04 + 444 - 20 = ?$

- Ans
- ☐ A. 472.88
 - ☐ B. 495.22
 - ☒ C. 480.88
 - ☐ D. 577.2

Q.2 A car covers a distance of 44 km using $2\frac{3}{4}$ litres of petrol. What distance can the car cover using 1 litre of petrol?

- Ans
- ☒ A. 16 km
 - ☐ B. 14 km
 - ☐ C. 15 km
 - ☐ D. 13 km

Q.3 $(136 \div 17) + (17 \times 13) - (103 - 85) \times (62 + 145) \div 23 = ?$

- Ans
- ☐ A. 76
 - ☐ B. 75
 - ☒ C. 67
 - ☐ D. 59

Q.4 When the following decimals are arranged in ascending order then what decimal number should be in the middle?

5.74, 6.03, 0.8, 0.658 and 7.2

- Ans
- ☒ A. 5.74
 - ☐ B. 0.8
 - ☐ C. 6.03
 - ☐ D. 7.2

Q.5 Which of the following numbers will have an irrational square root?

- Ans
- ☐ A. 3025
 - ☒ B. 6025
 - ☐ C. 9025
 - ☐ D. 11025

Q.6 The value of $\{(.98)^3 + (0.02)^3 + 3 \times 0.98 \times 0.02 - 1\}$

- Ans ☒ A. 0
☐ B. 1.562
☐ C. 1.09
☐ D. 1.98

Q.7 $22 - [23 - \{24 - (27 - \overline{25 - 30})\}] = ?$

- Ans ☒ A. -9
☐ B. -7
☐ C. -8
☐ D. 7

Q.8 The digit in the units place of the number represented by $(7^{95} - 3^{58})$ is:

- Ans ☐ A. 0
☒ B. 4
☐ C. 6
☐ D. 7

Q.9 If ₹ 686 is divided, into four parts, in proportions $\frac{1}{2} : \frac{2}{3} : 3 : 4$, then the first part is?

- Ans ☒ A. ₹ 42
☐ B. ₹ 48
☐ C. ₹ 52
☐ D. ₹ 56

Q.10 The ratio 75 : 125 in its simplest form is written as:

- Ans ☒ A. 3 : 5
☐ B. 3 : 2
☐ C. 5 : 3
☐ D. 2 : 3

Q.11 Find compound interest on ₹ 50000 at 12% per annum for 6 months, compounded quarterly.

- Ans ☐ A. ₹ 2875
☐ B. ₹ 2965
☒ C. ₹ 3045
☐ D. ₹ 3125

Q.12 A merchant incurred a loss of 5% by selling a book for ₹ 25.65. If he sells it for ₹ 31.05, find his gain percent or loss percent.

- Ans ☐ A. Gain 10%
☒ B. Gain 15%
☐ C. Loss 15%
☐ D. Loss 10%

Q.13 In what time can Saloni cover a distance of 450 m, if she runs at a speed of 20Km/hr. ?

- Ans**
- ✓ A. 81 sec
 - ✗ B. 320 sec
 - ✗ C. 102 sec
 - ✗ D. 3 minutes

Q.14 A train crossed a 110 m long platform in 13.5 seconds and a 205 m long platform in 18.25 seconds. What was the speed of the train?

- Ans**
- ✗ A. 66 km/h
 - ✗ B. 69 km/h
 - ✓ C. 72 km/h
 - ✗ D. 75 km/h

Q.15 If 15 boys earn ₹ 750 in 5 days, then how much money 25 boys will earn in 6 days?

- Ans**
- ✗ A. 1200
 - ✓ B. 1500
 - ✗ C. 900
 - ✗ D. 960

Q.16 The lengths of one side of a rhombus and one of the two diagonals are 6 cm each. The area of the rhombus (in cm^2) is:

- Ans**
- ✗ A. 18
 - ✓ B. $18\sqrt{3}$
 - ✗ C. $9\sqrt{3}$
 - ✗ D. $27\sqrt{3}$

Q.17 A cistern can be filled by two pipes A and B in 4 hours and 6 hours respectively. When full, the tank can be emptied by a third pipe C in 8 hours. If all taps are turned on at the same time, the cistern will be full in?

- Ans**
- ✗ A. $\frac{16}{7}$ hours
 - ✓ B. $\frac{24}{7}$ hours
 - ✗ C. $\frac{31}{7}$ hours
 - ✗ D. $\frac{40}{7}$ hours

Q.18 If P is 15 years now and Q will be 26 years old after 6 years, what is the ratio of their present ages?

- Ans**
- ✗ A. 2 : 1
 - ✓ B. 3 : 4
 - ✗ C. 4 : 1
 - ✗ D. 2 : 3

Q.19 Find the day name of 24 March 2006?

- Ans**
- ✗ A. Monday
 - ✓ B. Friday
 - ✗ C. Sunday
 - ✗ D. Wednesday

Q.20 If the length and breadth of a rectangle are increased by 8% and 12% respectively, then by what percent does the area of that rectangle increase?

- Ans**
- ☒ A. 20%
 - ☒ B. 20.96%
 - ☒ C. 22%
 - ☒ D. 24%

Q.21 There are four numbers in a set. The mean of the three smallest numbers is 9, whereas the mean of the three largest ones is 11. What is the range of the data set?

- Ans**
- ☒ A. 9
 - ☒ B. 6
 - ☒ C. 5
 - ☒ D. 3

Q.22 If $a+b+c=2s$, then $[(s-a)^2 + (s-b)^2 + (s-c)^2 + s^2] = ?$

- Ans**
- ☒ A. $(s^2 - a^2 - b^2 - c^2)$
 - ☒ B. $(a^2 + b^2 + c^2)$
 - ☒ C. $(s^2 + a^2 + b^2 + c^2)$
 - ☒ D. $(4s^2 - a^2 - b^2 - c^2)$

Q.23 If α and β are roots of the equation $x^2 - x - 1 = 0$, then the equation where roots are $\frac{\alpha}{\beta}$ and $\frac{\beta}{\alpha}$ is:

- Ans**
- ☒ A. $x^2 + 3x - 1 = 0$
 - ☒ B. $x^2 + 3x + 1 = 0$
 - ☒ C. $x^2 + x - 1 = 0$
 - ☒ D. $x^2 - x + 1 = 0$

Q.24 In a class there were 9 boys and some girls. In a test, the mean score obtained by the boys was 13 while that obtained by the girls was 15. If the overall average was 14.28, what was the total number of students in the class?

- Ans**
- ☒ A. 24
 - ☒ B. 25
 - ☒ C. 26
 - ☒ D. 27

Q.25 $\sin^2 60^\circ + \cos^2 30^\circ + \cot^2 45^\circ + \sec^2 60^\circ = ?$

- Ans**
- ☒ A. $\frac{5}{2}$
 - ☒ B. $\frac{7}{2}$
 - ☒ C. $\frac{13}{2}$
 - ☒ D. $\frac{15}{2}$

Section : General Intelligence and Reasoning

Q.26 Mamata is the mother of Surya. How is Mamata's brother related to Surya's brother?

Ans ✓ **A. Maternal uncle**

✗ **B. Father**

✗ **C. Grandfather**

✗ **D. Brother**

Q.27 Select the option that is related to the third word on the same basis as the second word is related to the first word.

Glass : transparent :: Wood :

Ans ✗ **A. Block**

✓ **B. Opaque**

✗ **C. Paint**

✗ **D. Furniture**

Q.28 Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statements:

- No glass is a paddle.
- All paddles are brakes.

Conclusions:

1. All brakes are paddles.
2. Some brakes are paddles.
3. No brake is glass.

Ans ✓ **A. Only conclusion 2 follows**

✗ **B. All the three conclusions follow**

✗ **C. Only conclusion 1 follows**

✗ **D. Only conclusion 3 follows**

Q.29 Consider the given statements to be true even if they seem to be at variance with the commonly known facts and decide which of the given conclusions logically follow(s) from the statements.

Statements:

- All covers are plastic.
- All plastic are toxic.

Conclusions:

1. All plastic are covers.
2. All toxic are covers.

Ans ✗ **A. Only conclusion 2 follows.**

✗ **B. All the conclusions follow.**

✗ **C. Only conclusion 1 follows.**

✓ **D. No conclusions follow.**

Q.30 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

- Some pins are metals.
- Some clips are metals.

Conclusions:

1. Some metals are pins.
2. Some pins are clips.

- Ans**
- ☒ A. Only conclusion 2 follows.
 - ☒ B. Both conclusions follow.
 - ☒ C. Only conclusion 1 follows.
 - ☒ D. Neither conclusion follows.

Q.31 If in a coded language, COCK is written as DPDL, then how will HEN be written in that language?

- Ans**
- ☒ A. ICO
 - ☒ B. HEO
 - ☒ C. IFO
 - ☒ D. IDP

Q.32 Given is a statement followed by two arguments numbered I and II. Consider the statement and the following arguments and decide which of the arguments is/are strong?

Statement:

Are 21st century teenagers under stress?

Arguments:

- I. Yes, teenagers' perception is that they are expected to be successful or good at *everything*. Failure has somehow gone from being viewed as a learning opportunity to being clearly unacceptable.
- II. No, stress is a relative perception that can be managed with proper guidance.

- Ans**
- ☒ A. Only argument I is strong.
 - ☒ B. Only argument II is strong.
 - ☒ C. Neither argument I nor II is strong.
 - ☒ D. Both arguments I and II are strong.

Q.33 Given is a statement followed by two assumptions numbered I and II. Consider the statement and the following assumptions and decide which of the assumptions is/are implicit in the statement.

Statement:

Sustainability can be defined as the practice of meeting the needs of the current generation without degrading or destroying the natural resources (e.g. water, soil, biodiversity, oil, minerals).

Assumptions:

- I. Our lives and economies are dependent on natural capital, which is made up of these natural resources and natural services, and the energy provided by the sun.
- II. Just as every investor knows, we should invest our capital and live off on the interest, or income, it provides. To live sustainably, we need to do the same: protect our natural capital and live off our biological income.

- Ans**
- ☒ A. Only assumption I is implicit.
 - ☒ B. Only assumption II is implicit.
 - ☒ C. Neither assumption I nor II is implicit.
 - ☒ D. Both assumptions I and II are implicit.

Q.34 Consider the given statement and decide which of the following assumptions is/are implicit in the statement.

Statement:

"The final exams are getting near", Rina reminded her daughters.

Assumptions:

- I. She wants them to remember about their study schedule.
- II. She wants them to give serious thought to their exams.

- Ans**
- ☒ A. Only I is implicit.
 - ☒ B. Only II is implicit.
 - ☒ C. Neither I nor II is implicit.
 - ☒ D. Both I and II are implicit.

Q.35 Consider the following statement and assumptions and decide which of the assumptions is implicit from the given statement.

Statement:

The school management has introduced compulsory swimming sessions for children below Class V.

Assumptions:

- I. Younger children learn swimming faster.
- II. The school wishes to enhance the overall development of children.

- Ans**
- ☒ A. Only assumption I is implicit
 - ☒ B. Only assumption II is implicit
 - ☒ C. Neither assumption I nor II is implicit
 - ☒ D. Both assumptions I and II are implicit

Q.36 Find the next number in the following series.

16, 18, 22, 24, 28, 30, ?

- Ans**
- ☒ A. 27
 - ☒ B. 25
 - ☒ C. 34
 - ☒ D. 30

Q.37 If '+' means '÷', '÷' means '-', '-' means '×' and '×' means '+', then what is the value of $80 + 20 \div 5 - 12 \times 92$?

- Ans**
- ☒ A. 36
 - ☒ B. 35
 - ☒ C. 28
 - ☒ D. 22

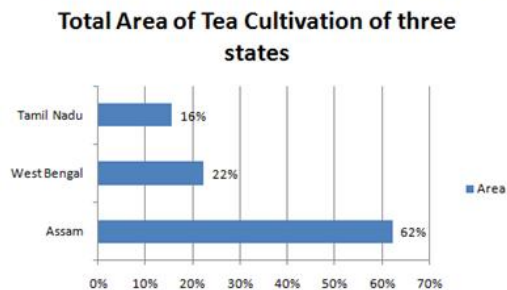
Q.38 If '+' becomes '÷' and '×' becomes '+' then what will be the value of $\{(36 + 6) + 6\} \times 12$?

- Ans**
- ☒ A. 12
 - ☒ B. 21
 - ☒ C. 6
 - ☒ D. 13

Q.39 Choose the missing digit 'x' from the options given for the number 987x54, so that the number is completely divisible by 6.

- Ans**
- ☒ A. 1
 - ☒ B. 2
 - ☒ C. 5
 - ☒ D. 3

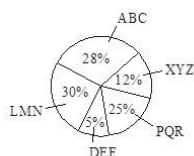
Q.40 Study the following graph carefully and answer the question that follows.



Area cultivated in West Bengal is what percentage more than that cultivated in Tamil Nadu?

- Ans**
- ☒ A. 6%
 - ☒ B. 4%
 - ☒ C. 8%
 - ☒ D. 3%

Q.41 The given pie chart shows information about the mobile phone manufacturing companies in India. The total number of mobile phone units manufactured is 12,40,000.



How many units of mobile phones are manufactured by company 'DEF'?

- Ans**
- ☒ A. 15,600
 - ☒ B. 31,000
 - ☒ C. 62,000
 - ☒ D. 1,24,000

Q.42 Lata makes 20 kg paneer at home and sells it every morning. From one litre of milk, she makes 200 gms of panner. The cost of a litre of milk is ₹ 40. How much money does she spend in procuring milk every day?

- Ans**
- ☒ A. ₹ 2,000
 - ☒ B. ₹ 3,000
 - ☒ C. ₹ 2,500
 - ☒ D. ₹ 4,000

Q.43 Read the given question and decide which of the following equations is/are sufficient to answer the question.

Question:

What is the value of x?

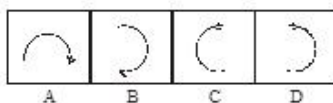
Equations:

1) $x^2 - 18x + 81 = 0$

2) $p + q + r = 0$

- Ans** ☒ A. Only 1 is sufficient.
☒ B. Only 2 is sufficient.
☒ C. Either 1 or 2 is sufficient.
☒ D. Neither 1 nor 2 is sufficient.

Q.44 Find the odd one out.



- Ans** ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.45 Which of the following does NOT belong to this group:

- A. Nail
- B. Hair
- C. Acne
- D. Toe

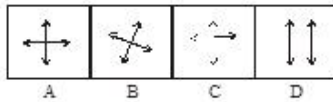
- Ans** ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.46 Which of the following does NOT belong to this group?

- A. Cotton
- B. Wool
- C. Rayon
- D. Cardboard

- Ans** ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.47 Find the odd one out.



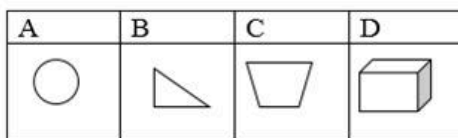
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.48 Which of the following option figures are combined to form the question figure?

Question Figure



Option Figures



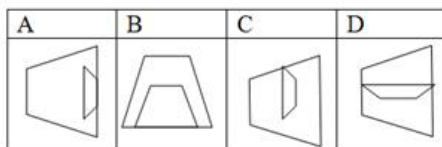
- Ans
- ☒ A. B , C and D
 - ☒ B. C, D and A
 - ☒ C. A and D
 - ☒ D. C and D

Q.49 Which of the option figures bears the closest resemblance to the question figure?

Question figure:



Option figures:

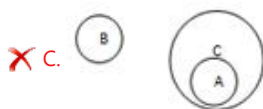


- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.50 Which of the following Venn diagrams correctly represents the relationship between the given classes?

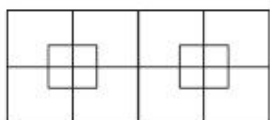
- A) Table
- B) Cloth
- C) Wood

Ans



Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

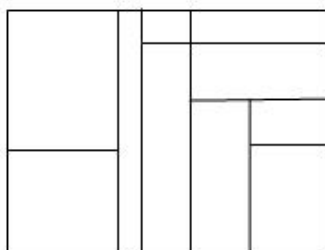
Q.51 Find the number of squares in the following figure.



Ans

- ☒ A. 20
- ☒ B. 21
- ☒ C. 22
- ☒ D. 23

Q.52 How many rectangles are there in the following picture?



Ans

- ☒ A. 22
- ☒ B. 21
- ☒ C. 20
- ☒ D. 24

Q.53 Aadhya walks 500 m towards North and then turns left and walks 250 m. In which direction is she with respect to her initial position?

Ans

- ☒ A. North-East
- ☒ B. North-West
- ☒ C. South-East
- ☒ D. South-West

Q.54 If North-East becomes North, then what will East become?

- Ans
- ☐ A. South-East
 - ☐ B. South-West
 - ☒ C. North-East
 - ☐ D. North-West

Q.55 If South becomes South-East, then what will North become?

- Ans
- ☐ A. North-East
 - ☒ B. North-West
 - ☐ C. South-West
 - ☐ D. South-East

Section : General Science

Q.56 The weight of an object on the moon is how many times its weight on the earth?

- Ans
- ☐ A. $\frac{1}{5}$ times
 - ☒ B. $\frac{1}{6}$ times
 - ☐ C. 5 times
 - ☐ D. 6 times

Q.57 The point where entire weight of an object acts is known as the ____.

- Ans
- ☐ A. centre of mass
 - ☐ B. centre of pressure
 - ☒ C. centre of gravity
 - ☐ D. centre of friction

Q.58 The velocity of vertically thrown ball, with time, will be:

- Ans
- ☐ A. Upwards positive
 - ☐ B. Downwards positive
 - ☐ C. Upwards negative
 - ☐ D. Downwards negative

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.59 A ball is dropped from a height of 80 m. The distance travelled by it in the fourth second will be ____.

(take $g=10 \text{ m/s}^2$)

- Ans
- ☐ A. 15 m
 - ☒ B. 35 m
 - ☐ C. 50 m
 - ☐ D. 80 m

Q.60 An electric lamp of 120 W is used for 8 hours per day. Calculate the units of energy consumed by the lamp in one day.

- Ans**
- ☒ A. 0.96 unit
 - ☐ B. 1.50 unit
 - ☐ C. 2.00 unit
 - ☐ D. 16.00 unit

Q.61 A 40 kg girl runs up a flight of stairs having a rise of 5 m in 4 s. The power developed by her will be ____.
(take $g = 10 \text{ m/s}^2$)

- Ans**
- ☐ A. 100 W
 - ☐ B. 200 W
 - ☒ C. 500 W
 - ☐ D. 2000 W

Q.62 If two unequal masses possess the same kinetic energy, then the heavier mass has:

- Ans**
- ☐ A. lower speed
 - ☐ B. higher speed
 - ☐ C. greater momentum
 - ☐ D. lesser momentum

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.63 A ray of light passes from water to glass. It bends:

- Ans**
- ☐ A. towards the normal and speeds up
 - ☐ B. away from the normal and speeds up
 - ☒ C. towards the normal and slows down
 - ☐ D. away from the normal and slows down.

Q.64 Sound waves with frequencies below the audible range are called:

- Ans**
- ☐ A. ultrasonic
 - ☐ B. supersonic
 - ☒ C. infrasonic
 - ☐ D. ultrasound

Q.65 Electric bulbs are usually filled with chemically-inactive gases like ____.

- Ans**
- ☐ A. oxygen
 - ☐ B. chlorine
 - ☒ C. nitrogen
 - ☐ D. hydrogen

Q.66 Two resistors, one of 10Ω and the other of 20Ω , are connected in series to a 6 V battery. The current in the circuit will be ____.

- Ans**
- ☒ A. 0.2 A
 - ☐ B. 0.3 A
 - ☐ C. 0.6 A
 - ☐ D. 0.9 A

Q.67 The correct formula of calcium hydroxide is:

- Ans**
- ☐ A. CaOH
 - ☐ B. CaOH_2
 - ☒ C. Ca(OH)_2
 - ☐ D. Ca_2OH

Q.68 The induced current is highest when the direction of motion of the coil is at _____ with respect to the magnetic field.

- Ans**
- ☐ A. 180°
 - ☒ B. 90°
 - ☐ C. 45°
 - ☐ D. 0°

Q.69 The pH of the solutions are given. Which of the solutions has the highest concentration of hydrogen ions?

- Ans**
- ☐ A. 4.7
 - ☐ B. 8.0
 - ☒ C. 2.4
 - ☐ D. 10.1

Q.70 A chemical reaction in which heat is generated is called a/an _____.

- Ans**
- ☐ A. combustion reaction
 - ☐ B. endothermic reaction
 - ☐ C. displacement reaction
 - ☒ D. exothermic reaction

Q.71 Which of the following compounds does NOT possess water of crystallisation?

- Ans**
- ☐ A. Copper sulphate
 - ☐ B. Washing soda
 - ☒ C. Baking soda
 - ☐ D. Gypsum

Q.72 Which of the following is malleable and ductile?

- Ans**
- ☒ A. Copper
 - ☐ B. Carbon
 - ☐ C. Phosphorus
 - ☐ D. Sulphur

Q.73 5-8% of acetic acid is called:

- Ans**
- ☐ A. glacial acetic acid
 - ☐ B. ester
 - ☐ C. ethanol
 - ☒ D. vinegar

Q.74 In which group of the modern periodic table are halogens placed?

- Ans**
- ☐ A. 1st
 - ☐ B. 16th
 - ☒ C. 17th
 - ☐ D. 18th

Q.75 Who classified elements based on atomic numbers?

- Ans**
- ☐ A. Dobereiner
 - ☐ B. Newlands
 - ☐ C. Mendeleev
 - ☒ D. Moseley

Q.76 In which of the following plants is the plant body NOT differentiated into roots, stem and leaves?

- Ans**
- ☒ A. Spirogyra
 - ☐ B. Marsilea
 - ☐ C. Chara
 - ☐ D. Riccia

Q.77 Which one of the following is NOT a simple permanent tissue?

- Ans**
- ☐ A. Parenchyma
 - ☐ B. Sclerenchyma
 - ☒ C. Xylem
 - ☐ D. Collenchyma

Q.78 The breakdown of pyruvate using O₂ takes place in the ____.

- Ans**
- ☐ A. nucleus
 - ☐ B. vacuoles
 - ☐ C. lysosomes
 - ☒ D. mitochondria

Q.79 Which of the following hormones brings about changes in appearance seen in boys at the time of puberty?

- Ans**
- ☐ A. Insulin
 - ☒ B. Testosterone
 - ☐ C. Thyroxin
 - ☐ D. Animal hormone

Q.80 Which of the following animals reproduces by budding and can also can carry out regeneration?

- Ans**
- ☐ A. Planaria
 - ☒ B. Hydra
 - ☐ C. Yeast
 - ☐ D. Plasmodium

Q.81 Which of the following states emerged as overall champions of the first (inaugural) edition of Khelo India School Games (KISG) held from 31st January to 8th February 2018 at Indira Gandhi Indoor Stadium?

- Ans**
- ☒ A. Maharashtra
 - ☒ B. Haryana
 - ☒ C. Uttar Pradesh
 - ☒ D. Gujarat

Q.82 Which of the following nations is the only country to win the ICC Under-19 Cricket World Cup four times?

- Ans**
- ☒ A. New Zealand
 - ☒ B. Australia
 - ☒ C. India
 - ☒ D. South Africa

Q.83 Which of the following sport is Yuzvendra Chahal related to?

- Ans**
- ☒ A. Cricket
 - ☒ B. Hockey
 - ☒ C. Tennis
 - ☒ D. Shooting

Q.84 Who won the Filmfare Best Actor in a Leading Role (Male) award 2017?

- Ans**
- ☒ A. Shahrukh Khan
 - ☒ B. Aamir Khan
 - ☒ C. Ranbir Kapoor
 - ☒ D. Ranveer Singh

Q.85 Name the book authored by K. R. Meera which raises pertinent questions about the politics of faithfulness and the price of idealism.

- Ans**
- ☒ A. Aarachar
 - ☒ B. The Gospel of Yudas
 - ☒ C. Gilletin
 - ☒ D. Nethromeelanam

Q.86 Who was awarded the 2017 Sahitya Academy award for his English novel 'The Black Hill'?

- Ans**
- ☒ A. Vikram Seth
 - ☒ B. Mamang Dai
 - ☒ C. Chetan Bhagat
 - ☒ D. Amitav Ghosh

Q.87 Who has been crowned Femina Miss India 2018?

- Ans**
- ☒ A. Anukreethy Vas
 - ☒ B. Meenakshi Chaudhary
 - ☒ C. Shreya Rao Kamavarapu
 - ☒ D. Sunaina Kamath

Q.89 The 2018 best tableau award in the republic day parade was given away by Union Defence Minister Nirmala Sitharaman to the state of:

- Ans**
- ☐ A. Karnataka
 - ☐ B. Goa
 - ☐ C. Gujarat
 - ☒ D. Maharashtra

Q.90 The Ministry of Women and Child Development had launched a social media campaign to mark _____ on 11 August 2016.

- Ans**
- ☒ A. Daughter's Day
 - ☐ B. Women's Day
 - ☐ C. Son's Day
 - ☐ D. Men's Day

Q.91 Which among the following union ministers of India launched the mobile app 'Celebrating Yoga' to connect people through Yoga for scientific healthy living?

- Ans**
- ☐ A. Mahesh Sharma
 - ☒ B. Harsh Vardhan
 - ☐ C. Smriti Irani
 - ☐ D. Jagat Prakash Nadda

Q.92 The Election Commission of India (ECI) celebrated 8th National Voters' Day across nation on _____ for enhanced participation of citizens in electoral process.

- Ans**
- ☐ A. 26th January
 - ☒ B. 25th January
 - ☐ C. 24th January
 - ☐ D. 28th January

Q.93 In March 2018, who released '1,000 and '10 commemorative coins on the occasion of the Nabakalebara festival at a function held in Puri, Odisha?

- Ans**
- ☐ A. The Governor of Odisha
 - ☒ B. The President of India
 - ☐ C. The Prime Minister of India
 - ☐ D. The Chief Minister of Odisha

Q.94 From which Indian princely state did Velu Thampi Dalava hail? He is known for revolting against the British.

- Ans**
- ☐ A. Mysore Kingdom
 - ☐ B. Chola Kingdom
 - ☐ C. Vijayanagaram
 - ☒ D. Travancore

Q.95 In which year was the Battle of Waterloo fought?

- Ans**
- ☐ A. 1840
 - ☐ B. 1835
 - ☐ C. 1850
 - ☒ D. 1815

Q.96 Karewas, a type of soil/deposit, is found in which Indian state?

- Ans**
- ☒ A. Nagaland
 - ☒ B. Jammu & Kashmir
 - ☒ C. Rajasthan
 - ☒ D. West Bengal

Q.97 Which is the longest river of Europe?

- Ans**
- ☒ A. Rhine
 - ☒ B. Danube
 - ☒ C. Volga
 - ☒ D. Ural

Q.98 The name of the comprehensive mentorship programme tailored exclusively for Indian startups that are using Machine Learning (ML) and Artificial Intelligence (AI) to build solutions for the pressing problems in the country is:

- Ans**
- ☒ A. Launchpad Accelerator India
 - ☒ B. MLAI Accelerator India
 - ☒ C. Automation Accelerator India
 - ☒ D. Modernization Accelerator India

Q.99 Which of the following events is celebrated every year on January 9 to mark the contribution of the overseas Indian community in the development of India?

- Ans**
- ☒ A. Pravasi Bharatiya Divas (PBD)
 - ☒ B. Akhil Bharatiya Divas (ABD)
 - ☒ C. Unnatiya Bharat Divas (UBD)
 - ☒ D. Overseas Indian Development Day (OIDD)

Q.100 The Central Government's initiative aimed at bringing masses within the formal banking system is called:

- Ans**
- ☒ A. Jan Bank Yojana
 - ☒ B. Jan Dhan Yojana
 - ☒ C. Jan Rupaya Yojana
 - ☒ D. Jan Aadmi Yojana



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	19/09/2018
Test Time	12:30 PM - 2:00 PM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 The product of two numbers is 0.646 and one of the numbers is 1.7. What is the other number?

- Ans**
- ☒ A. 3.8
 - ☒ B. 0.38
 - ☐ C. 38
 - ☐ D. 0.038

Q.2 Which of the fractions given below, when added to $\frac{13}{5}$, gives 1?

- Ans**
- ☐ A. $-\frac{7}{5}$
 - ☐ B. $-\frac{8}{15}$
 - ☒ C. $-\frac{48}{30}$
 - ☐ D. $-\frac{26}{10}$

Q.3 The LCM of 112, 72 and 90 is?

- Ans**
- ☐ A. 2520
 - ☒ B. 5040
 - ☐ C. 7560
 - ☐ D. 3780

Q.4 What is the square root of 11881?

- Ans**
- ☒ A. 109
 - ☐ B. 101
 - ☐ C. 111
 - ☐ D. 119

Q.5 If the number $x3208$ is divisible by 3, what can be the face value of x ?

- Ans
- ☐ A. 6
 - ☒ B. 5
 - ☐ C. 4
 - ☐ D. 3

Q.6 $77 \div [46 - \{66 - (52 - 63 \div 9 \times 3)\}] = ?$

- Ans
- ☐ A. 11
 - ☐ B. 5
 - ☐ C. 6
 - ☒ D. 7

Q.7 $140 \div [61 - \{36 - (40 - 60 \div 12 \times 6)\}] = ?$

- Ans
- ☐ A. 2
 - ☒ B. 4
 - ☐ C. 5
 - ☐ D. 10

Q.8 $0.\overline{047619}$, when written as a vulgar fraction, is equal to

- Ans
- ☐ A. $\frac{1}{17}$
 - ☐ B. $\frac{1}{19}$
 - ☒ C. $\frac{1}{21}$
 - ☐ D. $\frac{1}{23}$

Q.9 In a test Chitra secured 58.5 marks that was also equivalent to obtaining 78% marks. How many marks was the test out of?

- Ans
- ☐ A. 80
 - ☐ B. 65
 - ☒ C. 75
 - ☐ D. 85

Q.10 Pratray bought a set of cups for ₹ 195, but then had to sell it later to clear old stocks for ₹ 171.6. What is the percentage of loss that he had to bear?

- Ans
- ☒ A. 12
 - ☐ B. 13
 - ☐ C. 14
 - ☐ D. 15

Q.11 Pavan sold an item at a loss of 12.5%. If he could have sold it for ₹ 56 more, he would have made a profit of 22.5%. What should be the selling price of the item to make a profit of 25%?

- Ans
- ☐ A. ₹ 190
 - ☐ B. ₹ 185
 - ☒ C. ₹ 200
 - ☐ D. ₹ 182

Q.12 The initial ratio of sugar and flour in recipe was 17: 28. With 27 kg of the recipe, Sunita added more flour to make the sugar to flour ratio 2: 5. How much flour did Sunita later add?

- Ans**
- ☒ A. 8.1 kg
 - ☒ B. 8.3 kg
 - ☒ C. 8.5 kg
 - ☒ D. 8.7 kg

Q.13 17 trainees can do as much work as 4 experts can do in a day. It takes 12 experts and 9 trainees 5 days to dig a pond. How many trainees will one need alongside 4 experts to dig a similar pool in 15 days?

- Ans**
- ☒ A. 3
 - ☒ B. 4
 - ☒ C. 5
 - ☒ D. 6

Q.14 Mahima started a journey 12 minutes late and as a result had to drive @54 km/hr instead of @ 45 km/hr to reach on time. Find the distance covered during the course of the journey.

- Ans**
- ☒ A. 54 km
 - ☒ B. 67.5 km
 - ☒ C. 75 km
 - ☒ D. 90 km

Q.15 A and B can complete a task together in 15 days, while A alone can complete it in 18.75 days. They start working together but A leaves 12.5 days before the completion of the work. For how many days did A and B work together?

- Ans**
- ☒ A. 13.75
 - ☒ B. 10
 - ☒ C. 12.5
 - ☒ D. 11.25

Q.16 The time duration that would elapse between 12:46 p.m of 15th July 2019 and 12:38 p.m. of 16th July 2020 is

- Ans**
- ☒ A. 366 days 8 mins
 - ☒ B. 366 days 23 hours 52 mins
 - ☒ C. 365 days 23 hours 52 mins
 - ☒ D. 367 days 8 mins

Q.17 Shiva switched on a bulb at 1:37:39 hours and switched it off on the same day at 11:28:32 hours. For how long was the bulb in switched-on mode?

- Ans**
- ☒ A. 12 hours 40 mins 07 secs
 - ☒ B. 10 hours 09 mins 54 secs
 - ☒ C. 9 hours 50 mins 53 secs
 - ☒ D. 9 hours 09 mins 06 secs

Q.18 One pipe can fill an empty cistern in 7.8 hours while another can drain the cistern when full in 19.5 hours. Both the pipes were turned on when the cistern was half-empty. How long will it take for the cistern to be full?

- Ans**
- ☒ A. 3.9 hours
 - ☒ B. 5.2 hours
 - ☒ C. 6.5 hours
 - ☒ D. 7.8 hours

Q.19 Three-sevenths of my current age is the same as four-fifths of that of one of my cousin's. My age three years ago will be his age ten years hence. My current age is ____ years.

- Ans**
- ☒ A. 21
 - ☒ B. 28
 - ☒ C. 35
 - ☒ D. 42

Q.20 The sum of the lengths of the edges of a cube is equal to three-fifths of the perimeter of a square. If the numerical value of the volume of the cube is equal to the numerical value of the area of the square, then the perimeter of the square is:

- Ans**
- ☒ A. 480 units
 - ☒ B. 360 units
 - ☒ C. 300 units
 - ☒ D. 500 units

Q.21 The mean score of three students in a test out of 45 is 38. Two new students take the test. What is the lowest mark that can be obtained by the newcomer who scores less than the other new student for the overall average of the five students to rise to 40?

- Ans**
- ☒ A. 40
 - ☒ B. 41
 - ☒ C. 42
 - ☒ D. 43

Q.22 The mean of three numbers is 21. The range of this data set is 19 while the difference between the two smallest numbers is 5. The greatest of the three numbers is

- Ans**
- ☒ A. 29
 - ☒ B. 28
 - ☒ C. 27
 - ☒ D. 26

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.23 The number of diagonals in a 27-sided polygon is

- Ans**
- ☒ A. 322
 - ☒ B. 320
 - ☒ C. 324
 - ☒ D. 325

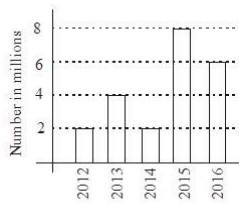
Q.24 If $\sec \theta + \tan \theta = 12.5$, then $\sec \theta - \tan \theta = ?$

- Ans**
- ☒ A. 1
 - ☒ B. 0.8
 - ☒ C. 0.08
 - ☒ D. 0.4

Q.25 If $2x^2 + ax + b$, when divided by $x - 3$, leaves a remainder of 31 and $x^2 + bx + a$, when divided by $x - 3$, leaves a remainder of 24, then $a + b$ equals

- Ans**
- ☒ A. -7
 - ☒ B. 7
 - ☒ C. 23
 - ☒ D. -23

- Q.26** The given data below shows information about manufacturing of engine vehicles for a company "ABC" over the last 5 years.



In which year was the production of engines the highest?

- Ans**
- ☒ A. 2012
 - ☒ B. 2014
 - ☒ C. 2015
 - ☒ D. 2016

- Q.27** Read the given statement and the following conclusions carefully and select which of the conclusions logically follow(s) from the statement.

Statement:

"Monkey is the funniest of all animals, as they mimic human behaviour", says Z to A.

Conclusions:

- I. Z is amazed at monkeys' behaviour.
- II. A likes monkeys.

- Ans**
- ☒ A. Conclusion I alone follows.
 - ☒ B. Conclusion II alone follows.
 - ☒ C. Both the conclusions follow.
 - ☒ D. Neither conclusion I nor II follows.

- Q.28** Puni is the daughter of Avani and Amit is the son of Avani's brother. How is Amit's father related to Puni?

- Ans**
- ☒ A. Cousin
 - ☒ B. Brother
 - ☒ C. Maternal uncle
 - ☒ D. Father

- Q.29** If, in a code language, LIQUID is written as PMUYMH, then how SPACE would be written in that code language?

- Ans**
- ☒ A. WTBGI
 - ☒ B. WTEGI
 - ☒ C. TEGIW
 - ☒ D. WEIGH

Q.30 Read the statements and conclusions below.

Statements:

- No cats are lions
- All lions are majestic animals

Conclusions:

1. All majestic animals are lions
2. Some majestic animals are lions
3. No majestic animal is cat

Which conclusion(s) follow(s) the given statement?

- Ans**
- ✓ **A.** Only conclusion 2 follows
 - ✗ **B.** All the conclusions follow
 - ✗ **C.** Only conclusion 1 follows
 - ✗ **D.** Only conclusion 3 follows

Q.31 Shoes are related to Legs in the same way Gloves are related to:

- Ans**
- ✗ **A.** Head
 - ✓ **B.** Hands
 - ✗ **C.** Wrists
 - ✗ **D.** Knees

Q.32 Find the next term in the below series. 3E, 9G, 27I, _____

- Ans**
- ✗ **A.** 80K
 - ✓ **B.** 81K
 - ✗ **C.** 80L
 - ✗ **D.** 81L

Q.33 Nanu and Ninu start cycling early in the morning in the opposite direction to each other. Nanu goes in the direction of Sun. After sometime, Nanu takes a left turn and Ninu takes a right turn. They are now travelling parallel to each other. Towards which direction are they moving?

- Ans**
- ✗ **A.** South
 - ✗ **B.** East
 - ✓ **C.** North
 - ✗ **D.** West

Q.34 What is the lateral mirror image of LATE?

LATE	LATE	LATE	LATE
A	B	C	D

- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.35 Find the next term in the below series.

25, 31, 38, 46, _____.

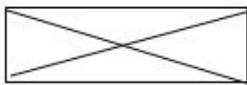
- Ans
- ☒ A. 58
 - ☒ B. 60
 - ☒ C. 55
 - ☒ D. 54

Q.36 What is the next term in the below series?

3T, 3A, 6S, 6B, 12R, 12C, ?

- Ans
- ☒ A. 24Q
 - ☒ B. 24S
 - ☒ C. 24T
 - ☒ D. 24U

Q.37 How many right angled triangles are there in this figure?



- Ans
- ☒ A. 4
 - ☒ B. 8
 - ☒ C. 6
 - ☒ D. 7

Q.38 What will come in the place of question mark in the below series?

$\text{C} < \text{R}$	$\text{R} < \text{C}$	$\text{C} < \text{R}$	?
-----------------------	-----------------------	-----------------------	---

A	B	C	D
$\text{C} > \text{R}$	$\text{R} > \text{C}$	$\text{R} < \text{C}$	$\text{R} < \text{C}$

Ans ☒ A. A

☒ B. D

☒ C. C

☒ D. B

Q.39 Which of the below does not belong to this group?

A. Broccoli

B. Carrot

C. Ridge gourd

D. Bitter gourd

Ans ☒ A. A

☒ B. B

☒ C. C

☒ D. D

Q.40 Which figure follows next in the below series?

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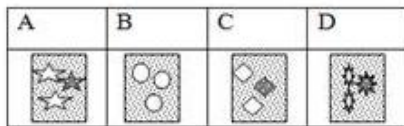
Ans ☒ A. C

☒ B. A

☒ C. B

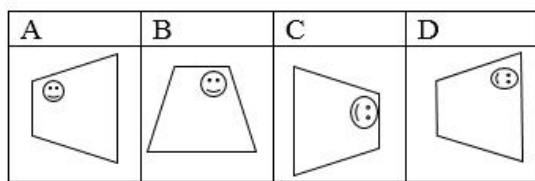
☒ D. D

Q.41 Find the odd one out.



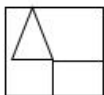
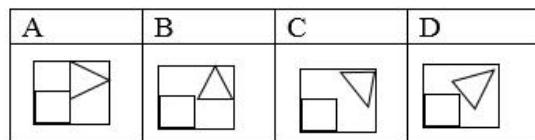
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. D
 - ☒ D. C

Q.42 Which pattern, of the ones shown in the below options, resembles closest to:



- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.43 Which pattern, of the ones shown in the below options, resembles closest to:



- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.44 A company's expenditure heads are given as follows (all figures are in lakhs of rupees)

Year	Salary	Bonus	Taxes	Interest on loans
Year1	200	10	70	20
Year2	200	10	70	22
Year3	450	10	120	20

Total expenditure of Year 1 was approximately what percent of total expenditure of Year 3?

- Ans**
- ☐ A. 0.5%
 - ☐ B. 100%
 - ☐ C. 5%
 - ☒ D. 50%

Q.45 Uma arranges for a terrace party. She divides the total expected expenditure into 5 broad segments. Here is the distribution:

Expense segments	% Expense
1	30
2	20
3	10
4	25
5	15

If she spends ₹ 850 on segment 3, what will be her total expense on segment 2 and segment 5?

- Ans**
- ☐ A. ₹ 1795
 - ☒ B. ₹ 2975
 - ☐ C. ₹ 1275
 - ☐ D. ₹ 1175

Q.46 Read the statement below followed by two arguments.

Statement:

Should Yoga be made compulsory in schools?

Arguments:

- I. Yes, it would help in overall development of a child, both physically and mentally
- II. No, parents will not object to their children learning Yoga

Which argument(s) of the below is/are strong in the context of the statement?

- Ans**
- ☐ A. Both arguments I and II are strong
 - ☐ B. Only argument II is strong
 - ☐ C. Neither argument I nor II is strong
 - ☒ D. Only argument I is strong

Q.47 Read the statement below along with two conclusions.

Statement: Naina looks at Sunita and compliments her on her looks.

Conclusions:

- I. Sunita is more beautiful than Naina
- II. Naina is impressed by Sunita's dressing sense

Which conclusion(s) follow(s) the given statement?

- Ans**
- ☒ A. Conclusion I alone follows
 - ☒ B. Conclusion II alone follows
 - ☒ C. Both the conclusions follow
 - ☒ D. Neither I nor II follows

Q.48 Which assumptions are implied from the below statement

Statement: "The real impact of water crisis would be felt in 2 years," says the Panchayat chief.

Assumptions:

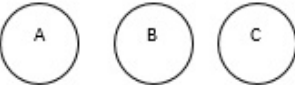
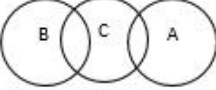
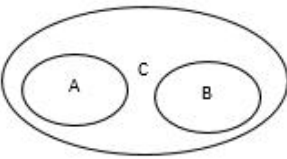
- I. The water level has started depleting
- II. Water bodies need maintenance

- Ans**
- ☒ A. Only assumption I is implicit
 - ☒ B. Only assumption II is implicit
 - ☒ C. Neither assumption I nor II is implicit
 - ☒ D. Both assumptions I and II are implicit

Q.49 Which of the following correctly represents the relationship between

- A) Woolen sweater
- B) Cotton
- C) Wool

Ans

- ☒ A. 
- ☒ B. 
- ☒ C. 
- ☒ D. 

Q.50 Consider the following question and statements and decide which of the statements is sufficient to answer the question.

What is the total weight of 10 cartons of Mangoes? Each of them weigh equal.

Statements:

1. One third of each boxes weight is 12 kg
2. Total weight of 6 boxes is 72 kg more than the total weight of 4 boxes

Ans ☒ A. Statement 1 and 2 are not sufficient
☒ B. Statement 1 alone is sufficient
☒ C. Statement 2 alone is sufficient
☒ D. Either of the statements 1 or 2 is sufficient

Q.51 Which of the following does NOT belong to this group?

- A. Mauve
- B. Purple
- C. Green
- D. Pole

Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.52 Consider the given statements and decide which of the conclusions logically follow from the statements.

Statement:

- All laptops are electronics.
- All electronics emit radiation.

Conclusions:

1. All laptops emit radiation.
2. Some radiation is due to electronics.

Ans ☒ A. Only conclusion 2 follows
☒ B. All the conclusions follow
☒ C. Only conclusion 1 follows
☒ D. None of the conclusions follow

Q.53 Consider the given statements to be true even if they seem to be at variance with the commonly known facts and decide which of the given conclusions logically follow(s) from the statements.

Statements:

- All dresses are clothes.
- All clothes are yarns.

Conclusions:

1. All dresses are yarns.
2. Some yarns are clothes.

Ans ☒ A. Only conclusion 2 follows.
☒ B. All the conclusions follow.
☒ C. Only conclusion 1 follows.
☒ D. No conclusions follow.

Q.54 Consider the given statement and decide which of the following assumptions is/are implicit in the statement.

Statement:

"Mobile phones are addictive", Y said to Z.

Assumptions:

- I. Mobile phones have many attractive features and games.
- II. People spend more time with their mobile phones.

- Ans**
- ☒ A. Only I is implicit.
 - ☒ B. Only II is implicit.
 - ☒ C. Neither I nor II is implicit.
 - ☒ D. Both I and II are implicit.

Q.55 From a cloth store, 15 customers bought orange dress, 15 bought red dress, 20 bought blue dress, 2 bought all the three colours and 8 bought at least two of these. How many bought at least one dress from the store?

- Ans**
- ☒ A. 39
 - ☒ B. 40
 - ☒ C. 45
 - ☒ D. 25

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Section : General Science

Q.57 Consider a planet whose mass and radius are one-third the mass and radius of the earth. If g is the value of acceleration due to gravity on the earth, then its value on the planet will be ____.

- Ans**
- ☒ A. $3g$
 - ☒ B. $\frac{1}{3}g$
 - ☒ C. $9g$
 - ☒ D. $\frac{1}{9}g$

Q.58 An object travel 18 m in 4 s and then another 16 m in 2 s. What is the average speed of the object?

- Ans**
- ☒ A. 5.67 m
 - ☒ B. 5.67 ms^{-1}
 - ☒ C. 5.67 s^{-1}
 - ☒ D. 6.67 ms^{-1}

Q.59 An object travels northwards with a constant velocity. The net force acting on the object will be ____.

- Ans**
- ☒ A. towards the north
 - ☒ B. towards the south
 - ☒ C. towards the east
 - ☒ D. zero

Q.60 Two objects A and B are moving with the same velocity. The mass of object A is twice that of B. The ratio of the kinetic energy of A to that of B, (K_A/K_B) will be ____.

- Ans**
- ☒ A. $\frac{1}{2}$
 - ☒ B. 1
 - ☒ C. 2
 - ☒ D. 4

Q.61 A car is moving with a high speed. Which energy does it possess?

- Ans**
- ☐ A. Frictional force
 - ☐ B. Gravitational force
 - ☐ C. Potential energy
 - ☒ D. Kinetic energy

Q.62 During the free fall of an object, which of the following energies increases at any point in its path?

- Ans**
- ☒ A. Kinetic energy
 - ☐ B. Chemical energy
 - ☐ C. Potential energy
 - ☐ D. Mechanical energy

Q.63 An object is placed in front of a concave mirror at a point between its centre of curvature and focus. The image will be formed at:

- Ans**
- ☐ A. the focus
 - ☐ B. the centre of curvature
 - ☐ C. a point between the focus and the centre of curvature
 - ☒ D. a point beyond the centre of curvature

Q.64 When a ray of light travels from a denser medium to a rarer medium, the ray will:

- Ans**
- ☐ A. speed up and bend towards the normal
 - ☒ B. speed up and bend away from the normal
 - ☐ C. slow down and bend towards the normal
 - ☐ D. slow down and bend away from the normal

Q.65 Three identical resistors, each of $6\ \Omega$, are connected in parallel. The equivalent resistance of the combination will be ____.

- Ans**
- ☒ A. $2\ \Omega$
 - ☐ B. $3\ \Omega$
 - ☐ C. $6\ \Omega$
 - ☐ D. $18\ \Omega$

Q.66 A source of $6\ \text{V}$ maintains a current of $0.5\ \text{A}$ in a resistor. The power supplied by the source to the resistor will be ____.

- Ans**
- ☐ A. $0.5\ \text{W}$
 - ☐ B. $1.0\ \text{W}$
 - ☐ C. $1.5\ \text{W}$
 - ☒ D. $3.0\ \text{W}$

Q.67 Which of the following classification of elements is based on atomic numbers?

- Ans**
- ☐ A. Dobereiner's Triads
 - ☐ B. Newland's Octaves
 - ☐ C. Mendeleev's periodic table
 - ☒ D. Modern periodic table

Q.68 The kinetic energy of the particles is maximum in the case of ____.

- Ans
- ☐ A. solids
 - ☐ B. liquids
 - ☐ C. gases
 - ☒ D. plasma

Q.69 To change a temperature from the Kelvin scale to the Celsius scale, you have to:

- Ans
- ☐ A. add 273 to the given temperature
 - ☐ B. multiply the given temperature by 273
 - ☐ C. divide the given temperature by 273
 - ☒ D. subtract 273 from the given temperature

Q.70 Tooth decay starts when the pH of the mouth is:

- Ans
- ☐ A. in the range 5.5 - 6.5
 - ☒ B. less than 5.5
 - ☐ C. is in the range of 6.5–7.5
 - ☐ D. is in the range of 8 - 9

Q.71 As the pH value increases from 7 to 14, it represents:

- Ans
- ☐ A. a decrease in the OH^- ion concentration
 - ☒ B. an increase in the OH^- ion concentration
 - ☐ C. an increase in the H^+ ion concentration
 - ☐ D. no change in the H^+ ion concentration

Q.72 Solder is an alloy of ____.

- Ans
- ☐ A. Cu and Zn
 - ☐ B. Cu and Sn
 - ☒ C. Pb and Sn
 - ☐ D. Ni, Cu and Zn

Q.73 ____ is used as a fuel in cars with petrol.

- Ans
- ☐ A. Butane
 - ☒ B. Ethanol
 - ☐ C. Benzene
 - ☐ D. Alcohol

Q.74 Which period of the modern periodic table has the minimum number of shells?

- Ans
- ☐ A. 4
 - ☐ B. 5
 - ☐ C. 6
 - ☐ D. 3

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.75 The elements present in any one group have the same ____.

- Ans**
- ☐ A. atomic number
 - ☐ B. atomic mass number
 - ☒ C. number of valence electrons
 - ☐ D. atomic size

Q.76 Which of the following scientists suggested a mechanism for organic evolution in his book "Origin of Species".

- Ans**
- ☐ A. Ernst Haeckel
 - ☐ B. Robbert Whittaker
 - ☐ C. Carl Woese
 - ☒ D. Charles Darwin

Q.77 Which tissue helps in the transportation of the material away from the photosynthetic parts of the plants?

- Ans**
- ☐ A. Xylem vessels
 - ☐ B. Meristematic tissue
 - ☒ C. Phloem
 - ☐ D. Ground tissue

Q.78 Goitre is caused due to the deficiency of ____.

- Ans**
- ☐ A. calcium
 - ☒ B. iodine
 - ☐ C. iron
 - ☐ D. sodium

Q.79 The seed of a plant contains the future plant in the form of a/an ____.

- Ans**
- ☐ A. ovary
 - ☐ B. ovule
 - ☒ C. embryo
 - ☐ D. stigma

Q.80 The transmission of traits, physical or mental, from parents to offspring is called ____.

- Ans**
- ☒ A. heredity
 - ☐ B. evolution
 - ☐ C. variation
 - ☐ D. progeny

Section : General Awareness and Current Affairs

Q.81 Who portrayed the character of Allauddin Khilji in the controversial movie 'Padmavat'?

- Ans**
- ☐ A. Ranbir Kapoor
 - ☒ B. Ranveer Singh
 - ☐ C. Shahid Kapoor
 - ☐ D. Rana Daggubati

Q.82 Who won the Golden Glove Award at the 2018 FIFA World Cup event?

- Ans**
- ☐ A. Rui Patricio
 - ☐ B. Fernando Muslera
 - ☐ C. Hugo Lloris
 - ☒ D. Thibaut Courtois

Q.83 Name the country which will host the 2019 Combined World Cup for shooting?

- Ans**
- ☐ A. Sri Lanka
 - ☐ B. Pakistan
 - ☐ C. Nepal
 - ☒ D. India

Q.84 Who was conferred with the 2018 Padma Shri award in the field of Art-Acting from Maharashtra?

- Ans**
- ☒ A. Manoj Joshi
 - ☐ B. Lakshmi Kutty
 - ☐ C. SS Rathore
 - ☐ D. Subhashini Mistry

Q.85 Who launched the Pulse Polio programme for 2018?

- Ans**
- ☒ A. Ram Nath Kovind
 - ☐ B. Narendra Modi
 - ☐ C. Venkaiah Naidu
 - ☐ D. Ahmed Ansari

Q.86 Which State Election Commission had decided in January 2017 to print voters list in Urdu as well?

- Ans**
- ☒ A. Uttar Pradesh
 - ☐ B. Bihar
 - ☐ C. Himachal Pradesh
 - ☐ D. Punjab

Q.87 Maharashtra government launched the Asmita Yojana on the occasion of _____.

- Ans**
- ☐ A. International Cancer Day
 - ☒ B. International Women's Day
 - ☐ C. International Aids Day
 - ☐ D. International Men's Day

Q.88 What sport is Limba Ram known for?

- Ans**
- ☒ A. Archery
 - ☐ B. Athletics
 - ☐ C. Boxing
 - ☐ D. Wrestling

Q.89 Who is the author of the book "Jinnah Often Came to Our House"?

- Ans
- ☐ A. Sunita Narain
 - ☒ B. Kiran Doshi
 - ☐ C. Dinanath Gopal Tendulkar
 - ☐ D. Sowvendra Shekhar

Q.90 The third Indian Council for Cultural Relations (ICCR) Distinguished Indologist Award for the year 2017 was awarded to _____.

- Ans
- ☐ A. Kamil Zvelebil
 - ☐ B. Madeleine Biardeau
 - ☒ C. Professor Hiroshi Marui
 - ☐ D. Bettina Baumer

Q.91 Which of the following Indian State Political parties is led by Omar Abdullah?

- Ans
- ☐ A. Jammu & Kashmir State Conference
 - ☐ B. Jammu and Kashmir People's Democratic Party
 - ☐ C. Jammu & Kashmir National Panthers Party
 - ☒ D. Jammu & Kashmir National Conference

Q.92 To push which initiative is the Govt. of India planning 'rent a roof' policy?

- Ans
- ☐ A. To Promote Hospitality
 - ☐ B. To Promote Foreign Travelers and Students
 - ☐ C. To Abolish Homelessness
 - ☒ D. To Promote Solar Power Generation

Q.93 Which state government has recently set up toll-free helpline number '14417' to provide information to students?

- Ans
- ☐ A. Rajasthan
 - ☐ B. Gujarat
 - ☐ C. Kerala
 - ☒ D. Tamil nadu

Q.94 When did the British make English the medium of instruction in India?

- Ans
- ☐ A. 1834
 - ☐ B. 1833
 - ☐ C. 1836
 - ☒ D. 1835

Q.95 _____ was the founder of the City of Agra.

- Ans
- ☒ A. Sikandar Lodi
 - ☐ B. Mumtaz Mahal
 - ☐ C. Shah Jahan
 - ☐ D. Abraham Lodi

Q.96 The boundary line between India and China is called _____

- Ans**
- ☐ A. Radcliffe Line
 - ☒ B. McMahon line
 - ☐ C. Palk Strait
 - ☐ D. Line of Control

Q.97 Indicate the wrong pair among the following:

- Ans**
- ☐ A. Kashmir – Saffron
 - ☐ B. Moradabad - Brass
 - ☒ C. Khetri – Iron
 - ☐ D. Surat – Diamonds

Q.98 In July 2018, which country was formally announced as the 69th shareholder of the European Bank for Reconstruction and Development (EBRD)?

- Ans**
- ☐ A. Pakistan
 - ☐ B. Germany
 - ☒ C. India
 - ☐ D. Sri Lanka

Q.99 Which of the following is the chief banker to the Government of India?

- Ans**
- ☐ A. State Bank of India
 - ☐ B. Punjab National Bank
 - ☒ C. Reserve Bank of India
 - ☐ D. Bank of India

Q.100 In the last ten years, FDI inflows are highest in which sector of India?

- Ans**
- ☒ A. Telecommunications
 - ☐ B. Pesticides
 - ☐ C. Services
 - ☐ D. Food processing



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	20/09/2018
Test Time	9:00 AM - 10:30 AM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 $30 \div (20 - 15 \div 3 \times 8) = ?$

- Ans
- ☐ A. 2
 - ☐ B. - 3
 - ☒ C. - 1.5
 - ☐ D. 3

Q.2 The fraction from the ones listed below that will not lead to a recurring decimal is:

- Ans
- ☐ A. $\frac{10}{56}$
 - ☐ B. $\frac{15}{56}$
 - ☒ C. $\frac{21}{56}$
 - ☐ D. $\frac{20}{56}$

Q.3 How much does one need to add to $\frac{10}{11}$ to obtain $\frac{11}{10}$?

- Ans
- ☐ A. $\frac{1}{-1}$
 - ☒ B. $\frac{21}{110}$
 - ☐ C. $\frac{1}{55}$
 - ☐ D. $\frac{2}{11}$

Q.4 What is the HCF of 306, 204 and 136?

- Ans
- ☐ A. 17
 - ☒ B. 34
 - ☐ C. 68
 - ☐ D. 51

Q.5 Which of the following numbers is composite?

- Ans
- ☐ A. 709
 - ☐ B. 719
 - ☒ C. 729
 - ☐ D. 739

Q.6 $\{143 - (9 - 2)\} \div [2 + \{3 \times (-5) \times (-1)\}] = ?$

- Ans
- ☐ A. 17
 - ☐ B. -8
 - ☐ C. -5
 - ☒ D. 8

Q.7 $275 \div [-1 + (-6) \text{ of } \{63 \div (-35 \div -5)\}] =$

- Ans
- ☐ A. 8
 - ☐ B. -4
 - ☒ C. -5
 - ☐ D. 10

Q.8 यदि $\frac{0.7}{1-6c} = -0.2$ है, तो $c = ?$

- Ans
- ☒ A. 0.75
 - ☐ B. 0.075
 - ☐ C. 0.5
 - ☐ D. 0.8

Q.9 A sum of ₹ 1600, invested at 7.25% simple interest per annum for 10 years will yield an interest of

- Ans
- ☐ A. ₹ 1180
 - ☐ B. ₹ 1220
 - ☒ C. ₹ 1160
 - ☐ D. ₹ 1240

Q.10 The interest earned on ₹ 3680 at 4% simple interest per annum for 2.5 years will be

- Ans
- ☐ A. ₹ 184
 - ☒ B. ₹ 368
 - ☐ C. ₹ 92
 - ☐ D. ₹ 276

Q.11 A sum of money invested for 3 years and 3 months @ 8% simple interest per annum became ₹ 819 at the end of the period. What was the sum that was initially invested?

- Ans
- ☐ A. ₹ 700
 - ☐ B. ₹ 675
 - ☒ C. ₹ 650
 - ☐ D. ₹ 600

Q.12 The ratio of the number of marbles that Tulip and Devansh had was 7 : 9 while the ratio of the number of marbles that Sheetal and Devansh had was 7 : 15. Find the ratio of the number of marbles that Tulip and Sheetal had.

- Ans**
- ☒ A. 5 : 7
 - ☒ B. 5 : 3
 - ☒ C. 7 : 5
 - ☒ D. 2 : 3

Q.13 Sai can do a piece of work in 17 days while Bindu can do it in 51 days. Sai works on Day 1, Bindu works on Day 2, and the system continues till work gets over. How many days does it take in all to complete the work?

- Ans**
- ☒ A. 25
 - ☒ B. 24.5
 - ☒ C. 25.5
 - ☒ D. 26

Q.14 A girl needs to travel 400 km in 5 hours. She travels for some time @ 85 km/hr and the rest of the time @ 55 km/hr. how long did she travel at the higher speed?

- Ans**
- ☒ A. 4 hours 25 mins
 - ☒ B. 4 hours 15 mins
 - ☒ C. 4 hours 35 mins
 - ☒ D. 4 hours 10 mins

Q.15 A and B can do a piece of work together in 35 days. If A works alone and completes $\frac{4}{7}$ of the work and then leaves the rest for B to do by herself, it takes a total of 114 days to complete the work. How many days would it take A, the more efficient among the duo, to complete the entire work by oneself?

- Ans**
- ☒ A. 40
 - ☒ B. 42
 - ☒ C. 45
 - ☒ D. 48

Q.16 The time duration that would elapse between 5:58 p.m. of 11th September 2023 and 5:49 p.m. of 13th September 2024 is

- Ans**
- ☒ A. 367 days 9 mins
 - ☒ B. 367 days 23 hours 51 mins
 - ☒ C. 366 days 23 hours 51 mins
 - ☒ D. 368 days 9 mins

Q.17 19th of February 2018 is a Monday. 19th of April 2019 will be a

- Ans**
- ☒ A. Wednesday
 - ☒ B. Thursday
 - ☒ C. Friday
 - ☒ D. Saturday

Q.18 Nilanjan is 11 years younger than Bharati. 15 years hence Bharati will be 1.2 times as old as Nilanjan. What is Nilanjan's present age?

- Ans**
- ☒ A. 38 years
 - ☒ B. 40 years
 - ☒ C. 42 years
 - ☒ D. 43 years

Q.19 The difference between Waqar's and Naseema's ages is 8 years. When they married each other 30 years ago, 4 times Waqar's age was the same as 5 times the age of Naseema. What is their current sum of ages?

- Ans**
- ☒ A. 135 years
 - ☒ B. 134 years
 - ☒ C. 132 years
 - ☒ D. 130 years

Q.21 Seven children, each with the same birthday, were born in seven consecutive years. The sum of the ages of the oldest three children is 78 years. What is the sum of the ages, in years, of the youngest three?

- Ans**
- ☒ A. 63
 - ☒ B. 72
 - ☒ C. 69
 - ☒ D. 66

Q.22 Four numbers, when arranged in ascending order, are w , x , y and z . The average of the smallest three numbers is 25.5 while the average of the largest three was 29.5. What is the range of the data?

- Ans**
- ☒ A. 10
 - ☒ B. 11
 - ☒ C. 12
 - ☒ D. 13

Q.23 The ratio of the measures of the interior angles of a regular heptagon and a regular dodecagon is:

- Ans**
- ☒ A. 4 : 5
 - ☒ B. 2 : 3
 - ☒ C. 6 : 7
 - ☒ D. 7 : 12

Q.24 One of the roots of the equation $x^2 - 24x + k = 0$ is $x = 2$

The other root is:

- Ans**
- ☒ A. $x = -12$
 - ☒ B. $x = -22$
 - ☒ C. $x = 12$
 - ☒ D. $x = 22$

Q.25 The angle of elevation of the top of a 43.5 metre tall tower from the initial position of a person on the ground was 60° . She walked away in a manner that the foot of the tower, her initial position and the final position were all in the same straight line. The angle of elevation of the top of the tower from her final position was 30° . How much did she walk from her initial position?

- Ans**
- ☒ A. 29 metre
 - ☒ B. $29\sqrt{3}$ metre
 - ☒ C. $\frac{29}{2}\sqrt{3}$ metre
 - ☒ D. $\frac{29}{3}\sqrt{3}$ metre

Section : General Intelligence and Reasoning

Q.26 Find the next alpha-numeric term in the given series:

5A, 7B, 9D, 11G, ?

- Ans
- ☒ A. 10G
 - ☒ B. 13K
 - ☒ C. 11K
 - ☒ D. 14G

Q.28 Read the below statements and conclusions.

Statement:

- All insects are living beings
- All butterflies are insects

Conclusions:

1. All butterflies are living beings
2. All insects are butterflies

Which conclusion(s) correctly follow(s) the given statements.

- Ans
- ☒ A. Only conclusion 2 follows
 - ☒ B. Both the conclusions follow
 - ☒ C. Only conclusion 1 follows
 - ☒ D. Both the conclusions do not follow

Q.29 Book is related to Pages in the same way a Machine is related to:

- Ans
- ☒ A. Electricity
 - ☒ B. Plastic
 - ☒ C. Plug point
 - ☒ D. Parts

Q.31 ABC is a right angled triangle at A (90° at A). To make two right angled triangles, which side we need to cut into half between the side?

- Ans
- ☒ A. AB
 - ☒ B. BC
 - ☒ C. CA
 - ☒ D. In the center

Q.32 In a code language, if DIP is written as KPW, then how SWIM would be written in that language?

- Ans
- ☒ A. ZDPT
 - ☒ B. PTZD
 - ☒ C. ZTDP
 - ☒ D. ZPDT

Q.33 Find the next term in the below series.

2I, 9L, 16O, __

- Ans ☒ A. 23R
☒ B. 22R
☒ C. 20R
☒ D. 23S

Q.34 Mannu and Pinky start for market from their home. They both start walking towards East for 500 metre, then they take a right turn to walk 200 metre to reach the laundry shop. Which direction is the laundry shop from their home?

- Ans ☒ A. South-east
☒ B. East -west
☒ C. North-west
☒ D. South-west

Q.35 Select the option that represents the correct lateral mirror image of: PEN

PEN	hEN	ИЭP	Ɔ3P
A	B	C	D

- Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.36 Find the next term in the below series:

2, 14, 98, __

- Ans ☒ A. 588
☒ B. 686
☒ C. 666
☒ D. 548

Q.37 If "<" is considered as "x" and ">" is considered as "+", then what is the value of $(5<7) \div 2$?

- Ans ☒ A. 70
☒ B. 65
☒ C. 37
☒ D. 35

Q.38 Find the next term in the below series:

E2, I12, M72, __

- Ans ☒ A. Q434
☒ B. Q432
☒ C. R432
☒ D. R434

Q.39 Read the question below followed by two statements.

What will be the total age of Megul and Shaymal from now?

Statements:

1. Megul is 15 years old today
2. Shymal is younger to Megul by 3 years

Which statement(s) is/are sufficient to answer the above question?

- Ans**
- ☒ A. Statement 1 alone is sufficient
 - ☒ B. Statement 2 alone is sufficient
 - ☒ C. Statement 1 and 2 together are not sufficient
 - ☒ D. Statements 1 and 2 together are sufficient

Q.40 Read the question below followed by two statements.

Neetu goes to market with 3 bags, each of same size and capacity. What is the total weight that all bags together can carry?

Statements:

1. Half of each bag's weight is 1kg
2. Bag 1 and 2 are green in colour and bag 3 is black in colour

Which statement(s) is/are sufficient to answer the above question?

- Ans**
- ☒ A. Statement 1 and 2 together are not sufficient
 - ☒ B. Statement 1 alone is sufficient
 - ☒ C. Statement 2 alone is sufficient
 - ☒ D. 1 and 2 together are sufficient

Q.41 What will come in place of ? in the below series?

⊙ ▲ ⊙	⊙ ⊙ ▼	⊙ ◀ ⊙	?
A	B	C	D
⊙ ⊙ ◀	⊙ ▶ ⊙	⊙ ⊙ ▶	⊙ ▶ ⊙

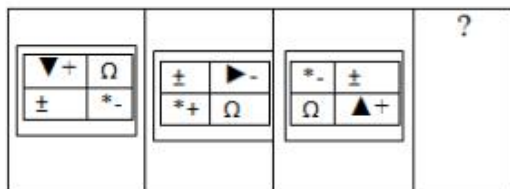
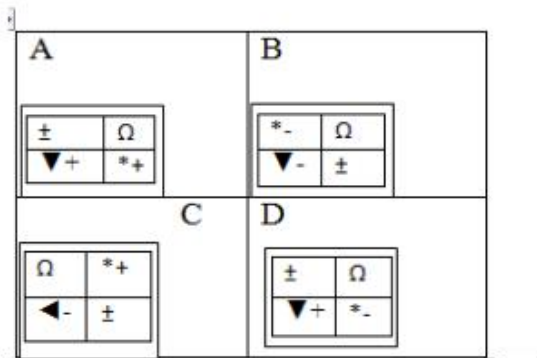
- Ans**
- ☒ A. A
 - ☒ B. D
 - ☒ C. C
 - ☒ D. B

Q.42 Select the option that does not belong to the below group.

- A. Axe
- B. blade
- C. knife
- D. Spanner

Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.43 Which figure will come next in the place of question mark (?)



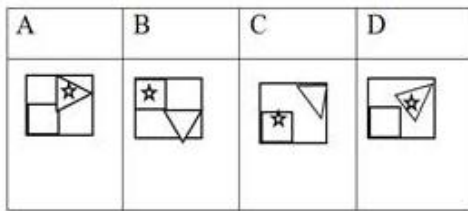
Ans ☒ A. C
☒ B. A
☒ C. B
☒ D. D

Q.44 Find the odd one out from the below.

A	B	C	D
1696	1426	1726	1326
AFIF	ADBF	AGBF	ACBF

Ans ☒ A. A
☒ B. B
☒ C. D
☒ D. C

Q.46 Which pattern, of the options below, resembles closest to:



- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.47 The question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which argument(s) is/are 'strong' argument(s).

Statement:

Public littering is a crime. Should people be punished?

Arguments:

- I. Yes, punishment will enforce strict discipline in citizens
- II. No, in a diverse nation, we cannot enforce such stringent laws

- Ans
- ☒ A. Both arguments I and II are strong
 - ☒ B. Only argument II is strong
 - ☒ C. Neither argument I nor II is strong
 - ☒ D. Only argument I is strong

Q.48 Read the statement below and two conclusions.

Statement:

"Kalyan's performance was good and he was promoted," Shyam said to Kaushik.

Conclusions:

- I. No one else performed well except Kalyan
- II. Performance leads to promotion

Decide which conclusion(s) logically follow(s) the statement.

- Ans
- ☒ A. Conclusion I alone follows
 - ☒ B. Conclusion II alone follows
 - ☒ C. Both the conclusions follow
 - ☒ D. Neither I nor II follows

Q.49 Read the statement below followed by two assumptions.

Statement:

Doctors says, "Recent studies have shown association in increased cancer patients and consumption of Aerated drinks."

Assumptions:

- I. Refined sugar is harmful
- II. Increase of sugar content in body becomes breeding ground for diseases

Decide which assumption(s) is/are implied in the given statement.

- Ans**
- ☒ A. Only assumption I is implicit
 - ☒ B. Only assumption II is implicit
 - ☒ C. Neither assumption I nor II is implicit
 - ☒ D. Both assumptions I and II are implicit

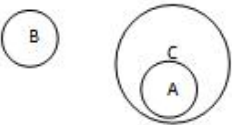
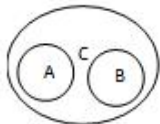
Q.50 Which of the following options correctly represents the relationship between:

A) Elephants

B) Lions

C) Animals

Ans

- ☒ A. 
- ☒ B. 
- ☒ C. 
- ☒ D. 

Q.51 Read the question and two statements given below.

There are 3 jars in a lab. They all weigh equal. What is their total weight?

Statements:

1. One fourth of a jar's weight is 40 gm
2. The jars are filled with different liquids used in an experiment

Which statement(s) is/are sufficient to answer the given question?

- Ans**
- ☒ A. Statement 1 and 2 together are not sufficient
 - ☒ B. Statement 1 alone is sufficient
 - ☒ C. Statement 2 alone is sufficient
 - ☒ D. Either 1 or 2 is sufficient

Q.55 In a group of children, 10 like cake, 15 like pastries, 20 like biscuits, 2 like all the three and 3 like at least 2 of these. How many children like exactly one?

- Ans**
- ☒ A. 37
 - ☒ B. 40
 - ☒ C. 45
 - ☒ D. 25

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Section : General Science

Q.56 During free fall condition, the body is in the state of:

- Ans**
- ☒ A. Motion
 - ☒ B. Rest
 - ☒ C. Weightlessness
 - ☒ D. Work done

Q.57 If a car uses total energy of 2000 J and its output is 500 J, then the efficiency of the car is _____.

- Ans**
- ☒ A. 50%
 - ☒ B. 25%
 - ☒ C. 40%
 - ☒ D. 30%

Q.58 An object moves along a circular path of radius 20 m with a uniform speed of 4.0 m/s. The time taken to complete one revolution is

- Ans**
- ☒ A. 5 s
 - ☒ B. 5π s
 - ☒ C. 10 s
 - ☒ D. 10π s

Q.59 Which of the following is a unit of gravitational constant G?

- Ans**
- ☒ A. $\text{s m}^2/\text{kg}^2$
 - ☒ B. $\text{N m}^2/\text{kg}^2$
 - ☒ C. $\text{N kg}^2/\text{m}^2$
 - ☒ D. N m/kg .

Q.60 An object of 1 kg is raised through a height of 10 m. The work done by the force of gravity is ($g = 9.8 \text{ m/s}^2$)

- Ans**
- ☒ A. 9.8 J
 - ☒ B. -9.8 J
 - ☒ C. 98 J
 - ☒ D. -98 J

Q.61 Potential energy is equal to:

- Ans ☒ A. mgh
☐ B. $\frac{1}{2}mv^2$
☐ C. Fs
☐ D. $\frac{1}{2}mu^2$

Q.62 If work has a positive value, the body on which work has been done would:

- Ans ☐ A. Have a zero value
☐ B. Remain constant
☒ C. Gain energy
☐ D. Lose energy

Q.63 The region of high density of particles in the medium during propagation of sound:

- Ans ☐ A. Rarefaction
☐ B. Resonation
☐ C. oscillation
☒ D. compression

Q.64 The velocity of sound in air at 25°C is _____.

- Ans ☐ A. 300 m/s
☐ B. 330 m/s
☒ C. 346 m/s
☐ D. 360 m/s

Q.65 Which of the following is not based on the practical applications of heating effect of electricity?

- Ans ☐ A. Electric flat iron
☐ B. Electric toaster
☐ C. Electric kettle
☒ D. Electric bell

Q.66 A current of 2 A is maintained in a resistor of $5\ \Omega$. The amount of charge that flows through the resistor in one minute is

- Ans ☐ A. 2 C
☐ B. 10 C
☐ C. 60 C
☒ D. 120 C

Q.67 _____ is a liquid state non-metal.

- Ans ☒ A. Bromine
☐ B. Mercury
☐ C. Helium
☐ D. Calcium

Q.68 A solution contains 45 g of common salt in 520 g of water. Calculate the concentration in terms of mass by mass percentage of the solution.

- Ans**
- ☒ A. 8.86%
 - ☒ B. 6.96%
 - ☒ C. 8.1%
 - ☒ D. 7.96%

Q.69 Which of the following is not an element?

- Ans**
- ☒ A. Oxygen gas
 - ☒ B. Copper
 - ☒ C. Water
 - ☒ D. Helium

Q.70 Which of the following acid is produced in our stomach?

- Ans**
- ☒ A. Acetic acid
 - ☒ B. Hydrochloric acid
 - ☒ C. Sulphuric acid
 - ☒ D. Lactic acid

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.71 Litmus solution is extracted from:

- Ans**
- ☒ A. Hydrangea
 - ☒ B. Petunia
 - ☒ C. Lichen
 - ☒ D. Geranium

Q.72 _____ alloy contains Tin.

- Ans**
- ☒ A. Brass
 - ☒ B. Steel
 - ☒ C. AlumeI
 - ☒ D. Solder

Q.73 Complete combustion of hydrocarbon gives which of the following?

- Ans**
- ☒ A. $\text{CO}_2 + \text{H}_2\text{O}$
 - ☒ B. $\text{CO} + \text{H}_2\text{O}$
 - ☒ C. $\text{CO}_2 + \text{OH}$
 - ☒ D. $\text{CO} + \text{OH}$

Q.74 In Mendeleevs' periodic table, the horizontal rows are called:

- Ans**
- ☒ A. Periods
 - ☒ B. Groups
 - ☒ C. Units
 - ☒ D. Classes

Q.75 The elements having similar chemical properties but different atomic masses are called:

- Ans
- ☒ A. isomers
 - ☒ B. Isobars
 - ☒ C. Isotopes
 - ☒ D. Halogens

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.76 In sclerenchyma, the cell walls are thickened due to:

- Ans
- ☒ A. Lignin
 - ☒ B. Cutin
 - ☒ C. Fats
 - ☒ D. Cellulose

Q.77 Which of the following statements is WRONG?

All chordates _____.

- Ans
- ☒ A. have a notochord
 - ☒ B. have a dorsal nerve cord
 - ☒ C. are diploblastic
 - ☒ D. are coelomate

Q.78 The phloem in plants are responsible for:

- Ans
- ☒ A. Transport of water
 - ☒ B. Transport of oxygen
 - ☒ C. Transport of minerals
 - ☒ D. Transport of food

Q.79 Which of the following type of reproduction allow for greater variation to be generated?

- Ans
- ☒ A. asexual
 - ☒ B. Binary fission
 - ☒ C. sexual
 - ☒ D. Regeneration

Q.80 Germ cells containing the stored food for embryo is called:

- Ans
- ☒ A. Female gamete
 - ☒ B. Male gamete
 - ☒ C. isogamete
 - ☒ D. zoogamete

Section : General Awareness and Current Affairs

Q.81 Which Indian movie is based on the life of the Phogat sisters from Haryana?

- Ans**
- ☐ A. Sultan
 - ☒ B. Dangal
 - ☐ C. Sarbjit Kaur
 - ☐ D. Neerja

Q.82 Who among the following personalities was elected as president of National Congress in 2017?

- Ans**
- ☐ A. Priyanka Vadra
 - ☒ B. Rahul Gandhi
 - ☐ C. Manmohan Singh
 - ☐ D. Robert Vadra

Q.83 Who among the following is the CEO of Microsoft who visited India and met India's Prime Minister Narendra Modi in 2016?

- Ans**
- ☒ A. Satya Nadella
 - ☐ B. Bill Gates
 - ☐ C. Mark Zuckerberg
 - ☐ D. Emmanuel Macron

Q.84 Identify the founder of Paytm who was mentioned in TIME magazine's Most Influential People of 2017 list along with Prime Minister Narendra Modi?

- Ans**
- ☐ A. Vijay Mallya
 - ☐ B. Vijay Bhaskar
 - ☒ C. Vijay Shekhar Sharma
 - ☐ D. Narendra Kumar

Q.85 How many medals did India win in the US Open Karate Championship held in Las Vegas in April 2017?

- Ans**
- ☐ A. 15
 - ☐ B. 12
 - ☐ C. 17
 - ☒ D. 16

Q.86 Who defeated Spain at the Salt Lake Stadium in Kolkata on Oct 28, 2017, to win the FIFA U-17 World Cup?

- Ans**
- ☐ A. China
 - ☐ B. Argentina
 - ☒ C. England
 - ☐ D. Brazil

Q.87 What portfolio does the Cabinet Minister of India, Ravi Shankar Prasad hold as of February 2018?

- Ans**
- ☒ A. Law and Justice Electronics and Information Technology
 - ☐ B. Chemicals and Fertilizers and Parliamentary Affairs
 - ☐ C. Civil Aviation
 - ☐ D. Health and Family Welfare

Q.88 Who among the following won the Women's Achievement Award 2017 given by the Delhi Commission for Women (DCW)? She is also a wheelchair bound disability rights activist and motivational speaker.

- Ans**
- ☒ A. Dr Rajalakshmi
 - ☒ B. Virali Modi
 - ☒ C. Neenu Kewlani
 - ☒ D. Gopika Anand

Q.89 What is the theme of 9th edition of Women's festival 2018?

- Ans**
- ☒ A. Live and Let Live
 - ☒ B. Transforming Leadership
 - ☒ C. Invent Yourself
 - ☒ D. Travelling Women

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.90 Of which of the following countries is Donald Trump the president?

- Ans**
- ☒ A. USA
 - ☒ B. UK
 - ☒ C. France
 - ☒ D. Russia

Q.91 Name the badminton player who won his maiden Super Series title in Singapore in April 2017?

- Ans**
- ☒ A. Srikanth Kidambi
 - ☒ B. Sai Praneeth
 - ☒ C. Prannoy Kumar
 - ☒ D. Parupalli Kashyap

Q.92 Which Bollywood personality has been appointed as the brand ambassador of Uttarakhand Swachh Bharat Mission (SBM)?

- Ans**
- ☒ A. Amitabh Bachchan
 - ☒ B. Akshay Kumar
 - ☒ C. Aishwarya Rai
 - ☒ D. Kajol

Q.93 How many ASEAN nations' leaders were the chief guests at the Republic Day celebrations of 26 January, 2018?

- Ans**
- ☒ A. 11
 - ☒ B. 10
 - ☒ C. 20
 - ☒ D. 8

Q.94 Which city hosted the National Conference on Agriculture for Rabi campaign 2017?

- Ans**
- ☒ A. Mumbai
 - ☒ B. Pantnagar
 - ☒ C. New Delhi
 - ☒ D. Patna

Q.95 Who launched the "Startup Academia Alliance Programme", a unique mentorship opportunity between academic scholars and start-ups working in similar domains?

- Ans**
- ☐ A. Google
 - ☒ B. Startup India
 - ☐ C. TCS
 - ☐ D. Start-up Village

Q.96 In _____, Qutb-ud-din proclaimed himself Sultan of Delhi and founded a line of rulers called the Slave Dynasty.

- Ans**
- ☐ A. 1207 AD
 - ☒ B. 1206 AD
 - ☐ C. 1205 AD
 - ☐ D. 1208 AD

Q.97 Ali Quli Salim and Abu Talib Kalim were important poets during the reign of _____.

- Ans**
- ☒ A. Shah Jahan
 - ☐ B. Jahangir
 - ☐ C. Akbar
 - ☐ D. Aurangzeb

Q.98 Van Mahotsava was started by _____ in 1950 to create awareness in the mind of the people for the conservation of forests and planting of new trees.

- Ans**
- ☐ A. Narhar Vishnu Gadgil
 - ☐ B. Sardar Vallabhbhai Patel
 - ☐ C. Jawaharlal Nehru
 - ☒ D. K. M. Munshi

Q.99 In India the Khadi and Gramodyog Sahakari Utpadak Sangh Ltd. was established in _____.

- Ans**
- ☐ A. 1948
 - ☐ B. 1947
 - ☒ C. 1954
 - ☐ D. 1950

Q.100 Who is the CEO of State bank of India (SBI) as of July 2018?

- Ans**
- ☐ A. Urjit Patel
 - ☐ B. K.V.Kamat
 - ☐ C. Chanda Kocchar
 - ☐ D. Arundhati Bhattacharya

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	25/09/2018
Test Time	12:30 PM - 2:00 PM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.2 $(77 + 14) - \frac{42}{7} \times 3 + (12 - 9) = ?$

- Ans
- ☐ A. 24
 - ☐ B. 90
 - ☒ C. 76
 - ☐ D. 92

Q.5 $\frac{273}{195}$, when written in the simplest form, is:

- Ans
- ☐ A. $\frac{14}{10}$
 - ☒ B. $\frac{7}{5}$
 - ☐ C. $\frac{91}{65}$
 - ☐ D. $\frac{28}{20}$

Q.6 A natural number when divided by 5, 6, 7 or 8 leaves a remainder of 4 in each case. The second such number, when arranged in ascending order is:

5

- Ans
- ☒ A. 1684
 - ☐ B. 844
 - ☐ C. 1688
 - ☐ D. 1264

Q.7 $108 \div 18 \times (55 - 35 \div 5) \div 3 = ?$

- Ans
- ☐ A. 18
 - ☒ B. 96
 - ☐ C. 144
 - ☐ D. 120

Q.8 $84 \div [-5 + (-4) \text{ of } \{32 \div (-16 \div -2)\}] = ?$

- Ans
- ☐ A. -2
 - ☐ B. 1
 - ☐ C. 2
 - ☒ D. -4

Q.9 In a group there are 10 boys and 10 girls. After adding some boys to this group, the percentage change in girls is 10%. How many boys were added?

- Ans
- ☐ A. 4
 - ☐ B. 10
 - ☐ C. 5
 - ☐ D. 6

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.11 Akshay borrows ₹ 3000 at simple interest of 6% per annum for 2 years and lends the same amount to his friend at simple interest of 9% per annum for 2 years. How much will Akshay earn in a year?

- Ans
- ☐ A. ₹ 180
 - ☒ B. ₹ 90
 - ☐ C. ₹ 120
 - ☐ D. ₹ 150

Q.14 Indra and Chandra can complete a task individually in 20 and 80 days, respectively. Indra starts the work, works for 3 days and takes a break for 5 days during which Chandra works. The pattern is continued till the task is completed. How many days did it take in all to do so?

- Ans
- ☒ A. 35
 - ☐ B. $37\frac{11}{17}$
 - ☐ C. 16
 - ☐ D. $57\frac{1}{2}$

Q.19 Inlet P can fill a tank in 7 hours and outlet Q can empty a completely filled tank in 6 hours. If only P is opened for 3 hours and after that Q is also opened, how many hours will be required to empty the tank?

- Ans
- ☐ A. 24
 - ☐ B. 28
 - ☐ C. 21
 - ☒ D. 18

Q.20 A sphere is split in the ratio 2 : 3. The larger part is molded into a cone having a height equal to the radius of its base, while the smaller part is molded into a cylinder having a height equal to the radius of its base. What would be the ratio of the radius of the cone and the height of the cylinder?

- Ans**
- ☒ A. $\sqrt[3]{9} : 1$
 - ☒ B. 3 : 1
 - ☒ C. $\sqrt[3]{9} : \sqrt[3]{2}$
 - ☒ D. $1 : \sqrt[3]{3}$

Q.21 The least value of x that makes $\frac{55}{x-19}$ an integer is:

- Ans**
- ☒ A. -14
 - ☒ B. 74
 - ☒ C. 30
 - ☒ D. -36

Section : General Intelligence and Reasoning

Q.26 Consider the following statement and conclusion and decide which of the conclusions logically follows from the statements.

Statement:

- Some toys are plastic.
- Some plastics are black.

Conclusions:

1. All toys are black.
2. All toys are plastic.

- Ans**
- ☒ A. Only conclusion 2 follows
 - ☒ B. Both the conclusions follow
 - ☒ C. Only conclusion 1 follows
 - ☒ D. Neither 1 nor 2 follows

Q.27 Vicky is the son of Vinod. Vinod and Vishal are brothers. Who is Vishal to Vicky?

- Ans**
- ☒ A. Paternal uncle
 - ☒ B. Maternal uncle
 - ☒ C. Brother
 - ☒ D. Father

Q.28 Supriya is the sister of Akhil. How is Akhil's father's mother related to Supriya?

- Ans**
- ☒ A. Mother
 - ☒ B. Paternal grandmother
 - ☒ C. Sister
 - ☒ D. Aunt

Q.32 A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement.

Statement:

Should music therapy be introduced in hospitals?

Arguments:

- I. Yes, it is proven music has healing effect on body and mind. It will help patients recover fast.
- II. No, it will not help.

- Ans**
- ✓ **A. Only argument I is strong.**
 - ✗ **B. Only argument II is strong.**
 - ✗ **C. Neither I nor II is strong.**
 - ✗ **D. Both I and II are strong.**

Q.33 Consider the given statement and decide which of the given assumption(s) is/are implicit in the statement.

Statement:

"Let's go to the movies," said Kajal to her husband.

Assumptions:

- I. Kajal likes to watch movies
- II. They are figuring out where to go

- Ans**
- ✓ **A. Only I is implicit**
 - ✗ **B. Only II is implicit**
 - ✗ **C. Neither I nor II is implicit**
 - ✗ **D. Both I and II are implicit**

Q.34 Consider the given statement(s) and decide which of the given assumption(s) is/are implicit in the statement.

Statement:

"Now-a-days people know that walking on grass resets the body mechanism"

Assumptions:

- I. Stress and Anxiety are modern age menace
- II. Walking on grass is really a very easy exercise

- Ans**
- ✗ **A. Only I is implicit**
 - ✓ **B. Only II is implicit**
 - ✗ **C. Neither I nor II is implicit**
 - ✗ **D. Both I and II are implicit**

Q.37 What is the next term in the given series?

22P, 2Z, 24Q, 4Y, 26R, ?_

- Ans
- ✓ A. 6X
 - ✗ B. 24S
 - ✗ C. 24X
 - ✗ D. 6S

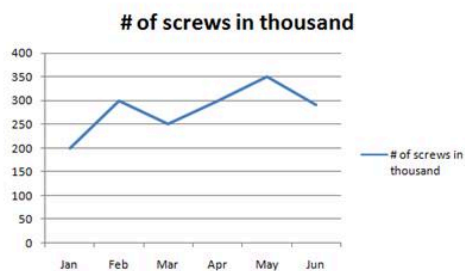
Q.39 Based on the sequences given in i and ii choose the correct options.

i. 5876, 5874, 5873

ii. 9875, 9873, 9872

- Ans
- ✗ A. 5643, 5641, 5642
 - ✗ B. 6789, 6788, 6778
 - ✓ C. 1238, 1236, 1235
 - ✗ D. 7654, 7653, 7651

Q.40 Based on the following chart, in which month was the number of screws manufactured less than 250?



- Ans
- ✗ A. May
 - ✗ B. June
 - ✗ C. February
 - ✓ D. January

Q.44 Identify the answer figure that will replace the question mark in the problem figure.

Problem Figure:

$\pi \blacktriangle \pi$	$\pi \pi \blacktriangledown$	$\pi \blacktriangleleft \pi$	?
--------------------------	------------------------------	------------------------------	---

Answer Figure:

A	B	C	D
$\pi \pi \blacktriangleleft$	$\pi \blacktriangleright \pi$	$\pi \pi \blacktriangleright$	$\pi \blacktriangleright \pi$

- Ans
- ☒ A. A
 - ☒ B. D
 - ☒ C. C
 - ☒ D. B

Q.45 The given question figure, printed on a sheet, is cut diagonally. Which of the options figures will it resemble?

Question figure:



Option figure:

A	B	C	D

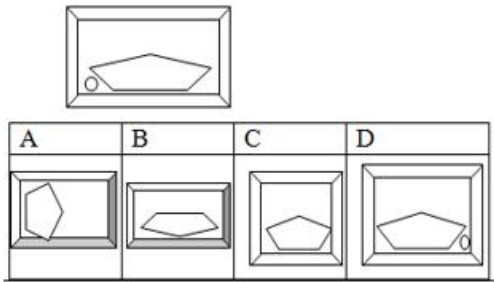
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.47 Find the odd one out:

A	B	C	D
I3	L4	O7	R6

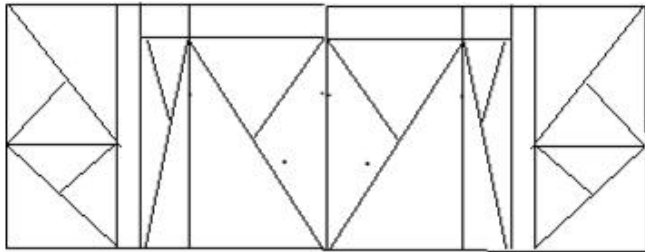
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.49 Which of the options bears the closest resemblance to the following figure?



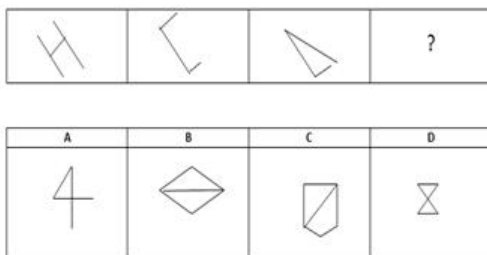
Ans
☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.52 How many triangles are there in the following figure?



Ans
☒ A. 35
☒ B. 32
☒ C. 24
☒ D. 34

Q.53 Select the option that can replace the question mark (?) in the given figure series.



Ans
☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.54 Which of the following shapes cut on a transparent sheet is used to form the below figure?

Question Figure:



Option Figures:

A	B	C	D

- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.55 Select the lateral mirror image of B62C34.

B62C34	4ECSaB	B62C34	B62C34
A	B	C	D

- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Section : General Science

Q.58 The product of mass and acceleration = _____

- Ans
- ☒ A. Thrust
 - ☒ B. Pressure
 - ☒ C. Force
 - ☒ D. Velocity

Q.63 The speed of sound is fastest in:

- Ans
- ☒ A. Steel
 - ☒ B. Water
 - ☒ C. Air
 - ☒ D. Kerosene oil

Q.66 A battery of 12 V is connected in series with resistors of 0.2 ohm, 0.3 ohm, 0.4 ohm, 0.5 ohm and 12 ohm. How much current would flow through the 0.3 ohm resistor?

- Ans
- ☒ A. 0.798 A
 - ☒ B. 0.895 A
 - ☒ C. 0.879 A
 - ☒ D. 0.795 A

Q.68 In modern periodic table, a zigzag line separates _____.

- Ans
- ☐ A. metals from halogens
 - ☐ B. metals from metalloids
 - ☐ C. non-metals from metalloids
 - ☒ D. metals from non-metals

Q.69 The mass of 0.6 mole of nitrogen is:

- Ans
- ☐ A. 168 g
 - ☒ B. 16.8 g
 - ☐ C. 1.68 g
 - ☐ D. 0.168 g

Q.70 A catalyst is a substance that:

- Ans
- ☐ A. Slows the reaction
 - ☐ B. Releases the reactants
 - ☒ C. Speeds up the reaction
 - ☐ D. Neutralises the equation reaction

Q.72 _____ is the most abundant element in the Sun's atmosphere.

- Ans
- ☐ A. Helium
 - ☐ B. Oxygen
 - ☐ C. Neon
 - ☒ D. Hydrogen

Q.73 _____ is not an allotropic form of carbon.

- Ans
- ☐ A. Graphite
 - ☒ B. Coal
 - ☐ C. Fullerene
 - ☐ D. Diamond

Q.74 Pick the correct statement from the following.

- Ans
- ☐ A. Cu, Au and As are coinage metals
 - ☐ B. Sc, Fr, Hg, Ga and Br are liquid elements
 - ☐ C. Scandium is the lightest metal
 - ☒ D. He has maximum ionisation potential

Q.76 The phloem in the plants does the function of:

- Ans
- ☐ A. Mineral movement
 - ☐ B. Providing support to stem
 - ☐ C. Conduction of water
 - ☒ D. Conduction of food

Q.77 _____ tissue is composed of dead cells.

- Ans**
- ☐ A. Parenchyma
 - ☐ B. Collenchyma
 - ☒ C. Sclerenchyma
 - ☐ D. Aerenchyma

Q.78 Rings of _____ are present in the throat.

- Ans**
- ☐ A. ligament
 - ☒ B. cartilage
 - ☐ C. tendons
 - ☐ D. areolar

Q.80 The development of a child inside the mother's (in case of human beings) body takes approximately _____ months.

- Ans**
- ☐ A. 7
 - ☐ B. 8
 - ☒ C. 9
 - ☐ D. 10

Section : General Awareness and Current Affairs

Q.81 The Society for National Institute of Physical Education and Sports (SNIPES) was merged with Sports Authority of India (SAI) in the year:

- Ans**
- ☐ A. 1983
 - ☐ B. 1985
 - ☒ C. 1987
 - ☐ D. 1989

Q.82 Apart from Virender Sehwag, which of the following Indian cricketers has the distinction of scoring triple centuries in Test matches?

- Ans**
- ☐ A. Virat Kohli
 - ☐ B. Rahul Dravid
 - ☒ C. Karun Nair
 - ☐ D. K. L. Rahul

Q.83 _____ was constituted by the Central Government with a view to mobilising resources from the government as well as non-governmental sources, including the private/corporate sector and non-resident Indians, for promotion of sports and games in India.

- Ans**
- ☐ A. Khel Ratna Fund
 - ☒ B. National Sports Development Fund
 - ☐ C. Khelo India Fund
 - ☐ D. Indian Sports Development Fund

Q.84 Debanjan Nandy's animation film, based on the concept of the emotional bond of an old man with the shadow of his wife, is titled:

- Ans**
- ☒ A. My Shadow
 - ☒ B. Chhaya
 - ☒ C. Old Shadow
 - ☒ D. Wherever I go, you come with me

Q.85 Which actor's autobiography is titled as 'Khullam Khulla'?

- Ans**
- ☒ A. Raj Kapoor
 - ☒ B. Ranbir Kapoor
 - ☒ C. Rajiv Kapoor
 - ☒ D. Rishi Kapoor

Q.88 Illaiyaraja received the ____ award for his contribution to the field of Art-Music in 2018.

- Ans**
- ☒ A. Padma Vibhushan
 - ☒ B. Padma Bhushan
 - ☒ C. Padma Shri
 - ☒ D. Sahitya Akademi

Q.89 Who has become the first Indian brand ambassador of Laureus?

- Ans**
- ☒ A. John Abraham
 - ☒ B. Yuvraj Singh
 - ☒ C. Sachin Tendulkar
 - ☒ D. Shahrukh Khan

Q.90 The power regarding creation of new All India Services lies with:

- Ans**
- ☒ A. The Speaker of Lok Sabha
 - ☒ B. The Rajya Sabha
 - ☒ C. The Lok Sabha
 - ☒ D. The Parliament

Q.91 National Development Council (NDC) was established in the year:

- Ans**
- ☒ A. 1952
 - ☒ B. 1953
 - ☒ C. 1954
 - ☒ D. 1956

Q.92 In 2017, which state police launched the 'Tare Zameen Par' programme to enlighten children in Naxal-affected areas?

- Ans**
- ☒ A. Uttar Pradesh
 - ☒ B. Jharkhand
 - ☒ C. Delhi
 - ☒ D. Karnataka

Q.93 'Right to Privacy' is an integral part of which of the following sections of the Constitution of India?

- Ans**
- ✓ **A. Fundamental Rights**
 - ✗ **B. Directive Principles**
 - ✗ **C. Fundamental Duties**
 - ✗ **D. Citizenship**

Q.95 ____ built many inns, mosques and laid down the network of roads the most famous among them being : The Grand Trunk Road.

- Ans**
- ✗ **A. Emperor Akbar**
 - ✓ **B. Emperor Sher Shah Suri**
 - ✗ **C. Emperor Aurangzeb**
 - ✗ **D. Emperor Humayun**

Q.96 Which of the following river does NOT originate in India?

- Ans**
- ✗ **A. Koel**
 - ✗ **B. Brahmani**
 - ✓ **C. Brahmaputra**
 - ✗ **D. Sankh**

Q.97 The _____ divides Indian landmass into almost two equal halves.

- Ans**
- ✗ **A. Prime Meridian**
 - ✗ **B. Equator**
 - ✗ **C. Tropic of Capricorn**
 - ✓ **D. Tropic of Cancer**

Q.98 Who among the following formulates the monetary policy of the Government of India?

- Ans**
- ✗ **A. President**
 - ✗ **B. Prime minister**
 - ✗ **C. Finance minister**
 - ✓ **D. Governor of RBI**

Q.99 Project 'Sashakt' was recently (in July 2018) launched by which union minister?

- Ans**
- ✗ **A. Home Minister**
 - ✗ **B. Defense Minister**
 - ✗ **C. Agriculture Minister**
 - ✓ **D. Finance Minister**

Q.100 To expedite the government's disinvestment program, the second Exchange Traded Fund called ____ was launched by the Union Finance Ministry.

- Ans**
- ✗ **A. Bharat 2022**
 - ✗ **B. Bharat 24**
 - ✗ **C. Bharat 20**
 - ✓ **D. Bharat 22**



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	23/10/2018
Test Time	9:00 AM - 10:30 AM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 Evaluate the following expression:

$$28 - 2(20 + 12 \div 4 \times 3 - 2 \times 2) + 22 = ?$$

- Ans
- ☐ A. 2
 - ☐ B. -2
 - ☒ C. 0
 - ☐ D. 4

Q.2 Evaluate: $35 - 42 \div 6 + 13 \times 2 = ?$

- Ans
- ☐ A. 33
 - ☒ B. 54
 - ☐ C. 1
 - ☐ D. -10

Q.3 Find the number between 300 and 500 which will be exactly divisible by 6, 8, 10 and 12:

- Ans
- ☐ A. 340
 - ☐ B. 490
 - ☐ C. 320
 - ☒ D. 360

Q.4 Simplify using BODMAS rule:

$$11 - [2 \times 9 - \{12 \div (7 - 2 + 1)(13 - 11)\}] = ?$$

- Ans
- ☒ A. -6
 - ☐ B. -5
 - ☐ C. -5.5
 - ☐ D. -4

Q.5 Solve the below equation.

$$34.508 + 3.4508 + 345.08 - 32.89 = ?$$

- Ans**
- ☐ A. 320.1488
 - ☐ B. 355.1488
 - ☐ C. 450.1488
 - ☒ D. 350.1488

Q.6 What is the difference between the place value of the two 3's in 935071360?

- Ans**
- ☐ A. 29999701
 - ☒ B. 29999700
 - ☐ C. 29999600
 - ☐ D. 29999400

Q.7 x and y , given correct to 2 decimal place, are given as 3.57 and 3.42 respectively. What is the upper bound of the value of $x + y$?

- Ans**
- ☒ A. 7.000
 - ☐ B. 6.990
 - ☐ C. 6.995
 - ☐ D. 7.010

Q.8 What is the greatest number smaller than 5000 which, when divided by 5, 6 and 7 respectively, leaves remainders of 4, 5 and 6?

- Ans**
- ☐ A. 4831
 - ☐ B. 4830
 - ☒ C. 4829
 - ☐ D. 4845

Q.9 Deepa bought a set of cups for ₹ 185, but then had to sell it later for ₹ 170.2 to clear old stocks. What is the percentage of loss that she had to bear?

- Ans**
- ☐ A. 14
 - ☐ B. 7
 - ☐ C. 16
 - ☒ D. 8

Q.10 ₹ 5,100 is to be divided among A and B in the ratio of 8:9. The share of B will exceed that of A by:

- Ans**
- ☒ A. ₹ 300
 - ☐ B. ₹ 200
 - ☐ C. ₹ 250
 - ☐ D. ₹ 350

Q.11 Mr. X invested ₹ 300 for three years at a simple interest rate of 11.03%. How much should Mr. Y invest to get the same return after three years, but at a compound interest rate of 10%?

- Ans**
- ☐ A. ₹ 250
 - ☒ B. ₹ 300
 - ☐ C. ₹ 350
 - ☐ D. ₹ 400

Q.12 By reducing the price of an article by 20%, the sale increase by 20%, what is the effect on the revenue earned?

- Ans**
- ☒ A. 4% increase
 - ☒ B. 4% reduce
 - ☒ C. 5% increase
 - ☒ D. 5% reduce

Q.13 A can complete a task alone in 12 days, while B takes 16 days to do it by herself. Together with C it takes them 6 days to complete the task. If C and D together can do the work in 30 days, then how many days will D need to complete the task by herself?

- Ans**
- ☒ A. 90
 - ☒ B. 75
 - ☒ C. 84
 - ☒ D. 80

Q.14 A student travels 420 km in 7 hours. He travels for some time @ 75 km/hr and the rest of the time @ 55 km/hr. How long did he travel at the higher speed?

- Ans**
- ☒ A. 1 hour 25 mins
 - ☒ B. 1 hour 45 mins
 - ☒ C. 1 hour 35 mins
 - ☒ D. 1 hour 15 mins

Q.15 A contractor decides to build a house in 30 days. He employed 50 men in the beginning and 50 more after 25 days and completed the construction in stipulated time. If he had not employed the additional men, how many more days would be required to complete the work?

- Ans**
- ☒ A. 30 days
 - ☒ B. 35 days
 - ☒ C. 40 days
 - ☒ D. 45 days

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.16 What is 46% of 250?

- Ans**
- ☒ A. 92
 - ☒ B. 126.5
 - ☒ C. 115
 - ☒ D. 103.5

Q.17 A tank can be filled by tap A in 15 h and B can fill the same in 24 h. Tap C can empty the filled tank in 30 h. If all the three taps are opened simultaneously, how much time will be taken to fill the tank completely?

- Ans**
- ☒ A. $\frac{40}{3}$ h
 - ☒ B. $\frac{67}{7}$ h
 - ☒ C. $\frac{40}{7}$ h
 - ☒ D. 3 h

Q.18 The length of each of the sides of a rhombus is given as 30 m and the length of one of its diagonals is 36 m. Find the area of the rhombus.

- Ans**
- ☒ A. 840 m^2
 - ☒ B. 856 m^2
 - ☒ C. 864 m^2
 - ☒ D. 860 m^2

Q.19 The middle portion of a solid object has the shape of a right circular cylinder (length = 14 cm). One end of the cylinder is a right circular cone and the other end is hemispherical. The radius of all three shapes is 3 cm. If the total length of the cylindrical object including the cone and the hemisphere is 21 cm, find out the total surface area of the solid object in cubic centimeter.

- Ans**
- ☒ A. 115π
 - ☒ B. 117π
 - ☒ C. 119π
 - ☒ D. 121π

Q.20 Sohrab started his journey at 5:24:37 p.m. and reached his destination at 7:34:48 p.m. Bheema started the same journey 48 minutes 23 seconds after Sohrab and reached the same destination 40 minutes 12 seconds after him. How long did Bheema take to complete the journey?

- Ans**
- ☒ A. 2 hours 2 minutes
 - ☒ B. 2 hours 1 minutes 12 seconds
 - ☒ C. 1 hour 59 minutes
 - ☒ D. 2 hours 2 seconds

Q.21 $\frac{\cot 45^\circ}{1 + \sin 45^\circ} + \frac{1 + \sin 45^\circ}{\cot 45^\circ} = ?$

- Ans**
- ☒ A. $3 - \frac{\sqrt{2}}{2}$
 - ☒ B. $\sqrt{2}$
 - ☒ C. $-\frac{\sqrt{2}}{2}$
 - ☒ D. $3 - 2\sqrt{2}$

Q.22 If a polyhedron has 10 faces and 23 edges, then the number of vertices are _____.

- Ans**
- ☒ A. 14
 - ☒ B. 15
 - ☒ C. 16
 - ☒ D. 11

Q.23 The scores of Rahul Sharma in ten consecutive innings are first ten natural numbers respectively. Find the mean of the above data?

- Ans**
- ☒ A. 5.5
 - ☒ B. 5
 - ☒ C. 6
 - ☒ D. 6.5

Q.24 If $a+b+c=0$, find the value of $\frac{a^2+b^2+c^2}{a^2-bc}$

- Ans ☒ A. 2
☐ B. 0
☐ C. 4
☐ D. 5

Q.25 The sum of the values of all the six trigonometric ratios when the angle $\alpha = 45^\circ$ is:

- Ans ☐ A. 6
☒ B. $2 + 3\sqrt{2}$
☐ C. $2 + 4\sqrt{2}$
☐ D. $\frac{6+3\sqrt{2}}{2}$

Section : General Intelligence and Reasoning

Q.26 Four words have been given below of which three are alike in some way and one is different. Choose the odd one out.

- Ans ☐ A. Eagle
☐ B. Parrot
☐ C. Swan
☒ D. Rabbit

Q.27 Choose the only person who does not belong to the group.

- Ans ☐ A. Virat Kohli
☐ B. Sachin Tendulkar
☐ C. M.S.Dhoni
☒ D. Sudha Chandran

Q.28 Pointing at a photograph, Divya says "He is the only son of my maternal grandmother". Whom Divya is pointing at?

- Ans ☒ A. Her maternal uncle
☐ B. Her paternal uncle
☐ C. Her brother
☐ D. Her father

Q.29 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statements:

- I. All bends are curves.
II. All curves are dangerous.

Conclusions:

1. All bends are dangerous.
2. Some curves are bends.

- Ans ☐ A. Conclusion 1 alone follows.
☒ B. Both 1 and 2 follows.
☐ C. Conclusion 2 alone follows.
☐ D. Neither 1 nor 2 follows.

Q.30 Select the term that relates to the third term in the same way as the second term relates to the first term.

Heart: Cardiologist :: Bone : ?

- Ans**
- ☒ A. Orthocare
 - ☒ B. Dermatologist
 - ☒ C. Orthopaedist
 - ☒ D. Orthodontist

Q.31 If X is Y's sister, Z is Y's mother, W is Z's father, Y is NOT X's sister, then Y is X's _____.

- Ans**
- ☒ A. niece
 - ☒ B. cousin
 - ☒ C. brother-in-law
 - ☒ D. brother

Q.34 In the following question the symbols #, @, *, %, S are used with the following meaning.

M % N means 'M is greater than N'.

M * N means 'M is equal to N'.

M S N means 'M is smaller than N'.

M # N means 'M is either smaller than or equal to N'.

M @ N means 'M is either greater than or equal to N'.

Read the given statement(s) and conclusions carefully, and select which of the conclusions logically follow(s) from the statement(s)

Statements:

P # R, M * P, L S M, R % V

Conclusions:

I. R @ M

II. V % M

- Ans**
- ☒ A. Only conclusion I follows
 - ☒ B. Only conclusion II is follows
 - ☒ C. Either conclusion I or II follows
 - ☒ D. Neither conclusion I nor II follows

Q.36 Find the next number in the series

16, 19, 24, 31, 40, ?

- Ans**
- ☒ A. 62
 - ☒ B. 50
 - ☒ C. 51
 - ☒ D. 63

Q.37 If + means $\div$, - means +, $\times$ means - and $\div$ means $\times$, then what is the value of $19 \div 10 - 36 + 6$?

- Ans**
- ☒ A. 196
 - ☒ B. 200
 - ☒ C. 187
 - ☒ D. 199

Q.38 What comes next in the given series 8E, 14 H, 20 K, 26 N, ?

- Ans**
- ☐ A. 35 W
 - ☐ B. 25 J
 - ☐ C. 30 T
 - ☒ D. 32 Q

Q.39 Complete the alphabet series, _____, DED, _____, HIH, JKJ.

- Ans**
- ☐ A. CBC, IJI
 - ☐ B. CBC, HJH
 - ☐ C. CDC, JHJ
 - ☒ D. BCB, FGF

Q.40 Read the given question and decide which of the following statements is/are sufficient to answer the question.

Question:

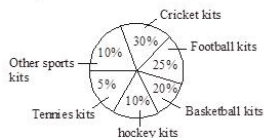
L, J, K and N are standing according to ascending order of their heights. Who is standing last?

Statements:

1. L is taller than K and N.
2. J is taller than L.

- Ans**
- ☒ A. Both the statements together are sufficient.
 - ☐ B. Both the statements are insufficient.
 - ☐ C. Statement 1 alone is sufficient.
 - ☐ D. Statement 2 alone is sufficient.

Q.41 The following pie diagram shows information on sale of sports kits by company XYZ. The total revenue made during the year 2016 is \$36,82,000.



How much revenue was made by company "XYZ" in 2016 through "Cricket kits" sales (in \$)?

- Ans**
- ☐ A. 1,38,075
 - ☐ B. 2,76,150
 - ☐ C. 5,52,300
 - ☒ D. 11,04,600

Q.42 Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

How many classrooms does the college have?

Statements:

1. Each block has 10 classrooms, which is equal to the total number of buildings in the college.
2. Each building has 4 blocks.

- Ans**
- ☐ A. Statement 1 alone is sufficient while statement 2 alone is not sufficient
 - ☐ B. Statement 2 alone is sufficient while 1 statement alone is not sufficient
 - ☐ C. Either statement 1 or 2 alone is sufficient
 - ☒ D. Both statements 1 and 2 together are sufficient

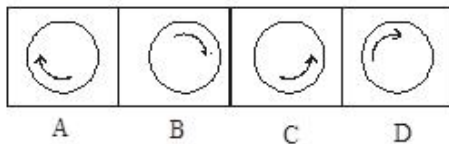
Q.43 A chain of tea kiosks installed in different areas yield sales as shown in the following table.

	Sales in lakhs
Area 1	3
Area 2	5
Area 3	8
Area 4	12

Compared with Area 3, Area 4 has:

- Ans**
- ☒ A. 25% more sales
 - ☒ B. 25% less sales
 - ☒ C. 50% more sales
 - ☒ D. 20% more sales

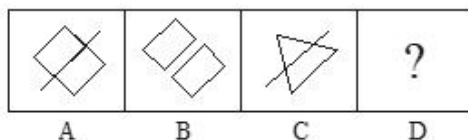
Q.44 Find the Odd one out:



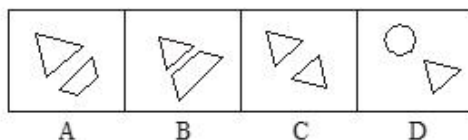
- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.45 Find the missing figure for the given series:

Problem figures:



Answer figures:



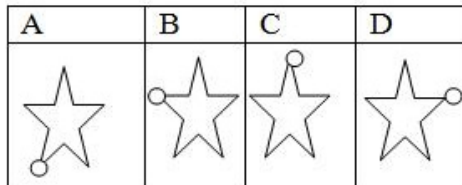
- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.46 Select the option figure that will complete the series of question figures.

Question figures:



Option Figures:



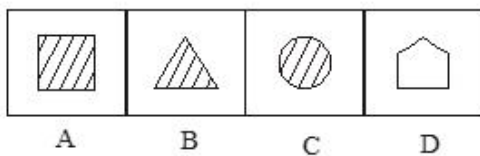
Ans ☒ A. A

☒ B. D

☒ C. C

☒ D. B

Q.47 Find the odd one out:



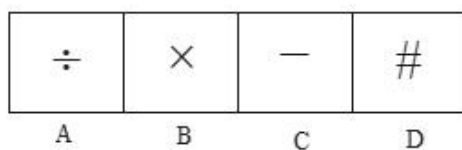
Ans ☒ A. A

☒ B. B

☒ C. C

☒ D. D

Q.48 Find the odd one out:



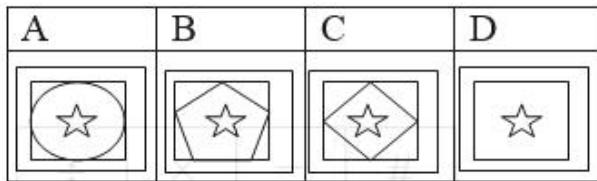
Ans ☒ A. A

☒ B. B

☒ C. C

☒ D. D

Q.49 Find the odd one out:



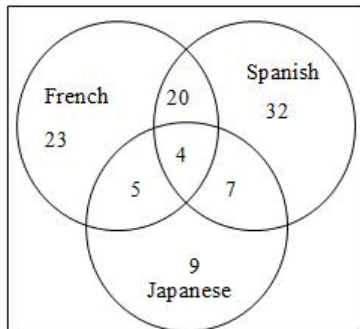
Ans ☒ A. A

☒ B. B

☒ C. C

☒ D. D

Q.50



The diagram represents the number of students in a class who study 3 languages

The total number of students studying in the class is?

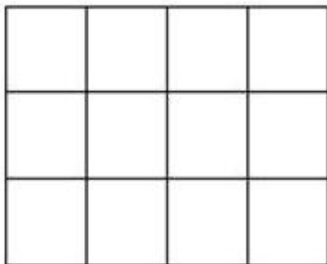
Ans ☒ A. 100

☒ B. 101

☒ C. 64

☒ D. 45

Q.51



How many squares are there in the above figure?

Ans ☒ A. 22

☒ B. 25

☒ C. 20

☒ D. 18

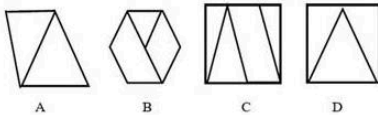
Q.52 A group of 150 employees of a firm were asked whether they know three of the new technologies the company is going to introduce in work. 50 responded that they know software 1 and 2, 30 responded that they know software 2 and 3 and 90 responded that they know software 1 and 3. 20 responded that they know all the three software. How many know exactly one software?

- Ans**
- ☒ A. 24
 - ☒ B. 25
 - ☒ C. 27
 - ☒ D. 20

Q.53



The above figure is embedded in any of these four figures. The correct picture containing the above picture is:



- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.54 Mr. X runs a marathon starting from the point A he runs 5 km towards north and reach point B, then turns right runs 6 km reach point C, then turn right runs 8 km and reach point D, then turns right runs 10 km and reach point E, then turns right runs 6 km and reach point F, then turns right runs 1 km and reach point G, then turns right runs 3 km and reach point H.

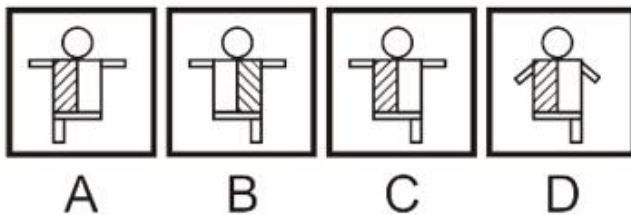
The shortest distance between point G and A is:

- Ans**
- ☒ A. $2\sqrt{3}$
 - ☒ B. $\sqrt{6}$
 - ☒ C. $3\sqrt{2}$
 - ☒ D. 6

Q.55



The mirror image of the above figure is:



- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.56 The SI unit of Momentum is _____.

- Ans**
- ☒ A. Newton
 - ☒ B. Kg ms^{-1}
 - ☒ C. Kg ms^{-2}
 - ☒ D. Dyne

Q.57 When a body is immersed in water, an upward force acts on it. What is this force called?

- Ans**
- ☒ A. Force of Friction
 - ☒ B. Force of Gravity
 - ☒ C. Force of Buoyancy
 - ☒ D. Force of Gravitation

Q.58 The mass of object on the Earth is 60 Kg. What is its mass on the Moon?

- Ans**
- ☒ A. 10Kg
 - ☒ B. 60Kg
 - ☒ C. 60N
 - ☒ D. 10N

Q.59 A body of mass 1 kg is moved towards East with a uniform speed of 2 m/s. A force of 1.5N is applied to it towards North. The magnitude of displacement of body after 2 seconds is:

- Ans**
- ☒ A. 5 m
 - ☒ B. 4 m
 - ☒ C. - 5 m
 - ☒ D. 3 m

Q.60 Find the potential difference when the current is 10 A and the resistance is 50 ohms.

- Ans**
- ☒ A. 5 V
 - ☒ B. 500 V
 - ☒ C. 500 Ohm
 - ☒ D. 50 V

Q.61 A boy, of mass 50 kg, runs up a staircase of 40 steps in 10 s. If the height of each step is 15 cm, find his power. Take $g = 10 \text{ ms}^{-2}$

- Ans**
- ☒ A. 337.5 W
 - ☒ B. 300 J
 - ☒ C. 300 W
 - ☒ D. 300 ms

Q.62 The energy possessed by an object because of its position or shape is called _____.

- Ans**
- ☒ A. static energy
 - ☒ B. potential energy
 - ☒ C. kinetic energy
 - ☒ D. latent energy

Q.63 Which of the following statements is/are true/false about speed of sound in different media at 25°C?

- A. In water (sea), the speed of sound is 1531 m/s.
- B. In water (distilled), the speed of sound is 1498 m/s

Ans ☒ A. Only A is true
☒ B. Only B is true
☒ C. Both A and B are true
☒ D. Neither A nor B is true

Q.64 When an object is _____ of a convex lens, the nature of the image is enlarged, virtual and erect

Ans ☒ A. At infinity
☒ B. At $2F_1$
☒ C. Between F_1 and O
☒ D. At F_1

Q.65 The SI unit of resistivity is:

Ans ☒ A. Ohm·m
☒ B. Ohm
☒ C. Ampere
☒ D. Joule

Q.66 How much work is done in moving a charge of 5 C across two points having a potential difference of 14 V?

Ans ☒ A. 44 J
☒ B. 48 J
☒ C. 14 J
☒ D. 70 J

Q.67 Group 1 elements are called _____.

Ans ☒ A. Alkali metals
☒ B. Noble gases
☒ C. Halogens
☒ D. Alkaline earth metals

Q.68 The word 'mole' was introduced around 1896 by:

Ans ☒ A. John Dalton
☒ B. Wilhelm Ostwald
☒ C. Joseph Proust
☒ D. Maharishi Kanad

Q.69 At what temperature can water be in both, liquid and gaseous state?

- Ans ☐ A. 0° C
☐ B. 105° C
all candidates.
☐ C. 100° C
☐ D. 273° C

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.70 _____ is NOT a photochemical reaction.

- Ans ☐ A. Photography
☐ B. Photosynthesis
☐ C. Free radical chlorination of methane
☒ D. Synthesis of ammonia from nitrogen and hydrogen

Q.71 Which of the following statements is/are true?

- A. A balanced chemical equation has an equal number of formula of different elements in the reactants and products.
B. An unbalanced chemical equation has an unequal number of atoms of one or more elements in the reactants and products.

- Ans ☐ A. Only A is true
☒ B. Only B is true
☐ C. A and B are both true
☐ D. A and B are both false

Q.72 What is the property of a metal having a shining surface called?

- Ans ☐ A. Hardness
☐ B. Ductility
☐ C. Malleability
☒ D. Metallic lustre

Q.73 Which of the following statements is/are true?

- A. Out of 114 elements, 32 are non-metals, and others are metals.
B. Every ore is a mineral but every mineral is not an ore

- Ans ☐ A. Only A is true
☒ B. Only B is true
☐ C. A and B are both true
☐ D. A and B are both false

Q.74 Which element has the maximum melting and boiling point?

- Ans ☐ A. Gold
☐ B. Osmium
☐ C. Lithium
☒ D. Tungsten

Q.75 What is the characteristic of Rare Earth Elements?

- Ans**
- ☒ A. Their one outermost shell is incomplete.
 - ☒ B. Their two outermost shells are incomplete.
 - ☒ C. Their three outermost shells are incomplete.
 - ☒ D. Their outermost shell is complete.

Q.76 Gymnosperms are often referred to as having _____ type of seeds because they do not have flowers, and their seeds develop on the surface of the reproductive structures of the plants, rather than being contained in a specialised ovary.

- Ans**
- ☒ A. naked
 - ☒ B. winged
 - ☒ C. non-motile male gametes
 - ☒ D. true traits

Q.77 Which of the following is a non-vascular plant?

- Ans**
- ☒ A. Marsilea
 - ☒ B. Fern
 - ☒ C. Chara
 - ☒ D. Deodar

Q.78 Endocrine glands are also known as:

- Ans**
- ☒ A. Hepatic gland
 - ☒ B. Thyroid Gland
 - ☒ C. Ductless Gland
 - ☒ D. Pituitary Gland

Q.79 New individual develops from buds:

- Ans**
- ☒ A. Paramaecium
 - ☒ B. Bacteria
 - ☒ C. Amoeba
 - ☒ D. Hydra

Q.80 Pollination is a characteristic of plants from the group:

- Ans**
- ☒ A. Angiosperm
 - ☒ B. Allogamy
 - ☒ C. Bryophytes
 - ☒ D. Pteridophytes

Section : General Awareness and Current Affairs

Q.81 Which team won the 2018 ICC Under-19 Cricket World Cup tournament?

- Ans**
- ☒ A. India
 - ☒ B. Pakistan
 - ☒ C. New Zealand
 - ☒ D. Australia

Q.82 Who among the following was awarded with the Arjuna Award 2017, in the category of archery?

- Ans**
- ✓ **A. Jyothi Surekha Vennam**
 - ✗ B. Deepika Kumari
 - ✗ C. Dola Banerjee
 - ✗ D. Jayanta Talukdar

Q.83 Vijay Hazare Trophy held annually is associated with which of the following sports?

- Ans**
- ✗ A. Wrestling
 - ✗ B. Shooting
 - ✓ **C. Cricket**
 - ✗ D. Tennis

Q.84 Who was selected for the fifth Yash Chopra Memorial Award?

- Ans**
- ✗ A. Shah Rukh Khan
 - ✗ B. Amitabh Bachchan
 - ✗ C. Karan Johar
 - ✓ **D. Asha Bhonsle**

Q.85 Who was awarded the 2016 Sangeet Natak Akademi Puraskar?

- Ans**
- ✓ **A. Satyabrata Rout**
 - ✗ B. AV Narasimha Murthy
 - ✗ C. Soumitra Chatterjee
 - ✗ D. K Vishwanath

Q.86 Who among the following has compiled the book "Mrichchakatika" in ancient India?

- Ans**
- ✗ A. Kalhana
 - ✗ B. Banabhatta
 - ✗ C. Vikramadeva
 - ✓ **D. Sudraka**

Q.87 In which year was Sachin Tendulkar awarded the Bharat Ratna?

- Ans**
- ✗ A. 2013
 - ✓ **B. 2014**
 - ✗ C. 2015
 - ✗ D. 2016

Q.88 Who recently won the 'Sahitya Akademi Bhasha Samman Award' for their contribution to Magahi Language?

- Ans**
- ✗ A. Sri Harihar Vaishnav
 - ✗ B. Sri Visvanatha Satyanarayana
 - ✓ **C. Shesh Anand Madhukar**
 - ✗ D. Smt. T. S. Saroja Sundararajan

Q.89 The Prime Minister of India has recently announced the launching of an App that will convert mobile phones in to 'banks'. Identify the financial app named after a Pandava Prince.

- Ans**
- ☒ A. DHARMA
 - ☒ B. ARJUN
 - ☒ C. BHIM
 - ☒ D. NAKUL

Q.90 Navjot Singh Sidhu recently joined which political party?

- Ans**
- ☒ A. Aam Aadmi Party
 - ☒ B. Bahujan Samaj Party
 - ☒ C. Bharatiya Janta Party
 - ☒ D. Indian National Congress

Q.91 Which scheme has the Union Cabinet approved with a focus on doctoral students pursuing research in areas related to technology?

- Ans**
- ☒ A. Technical Research Fellows (TRF) Scheme
 - ☒ B. Medical Research Fellows (MRF) Scheme
 - ☒ C. Medical Technology Research Fellows (MTRF) Scheme
 - ☒ D. Prime Minister's Research Fellows (PMRF) Scheme

Q.92 Which union ministry launched India's first digital online oncology tutorial series?

- Ans**
- ☒ A. Ministry of Tribal Affairs
 - ☒ B. Ministry of Women and Child Development
 - ☒ C. Ministry of Health and Family Welfare
 - ☒ D. Ministry of AYUSH

Q.93 As of August 2018, who is the chief minister of Meghalaya?

- Ans**
- ☒ A. Conrad Sangma
 - ☒ B. Yogi Adityanath
 - ☒ C. Mukul Sangma
 - ☒ D. Mamata Banerjee

Q.94 The first Muslim dynasty to rule over the subcontinent for about 84 years was the ____.

- Ans**
- ☒ A. Slave Dynasty
 - ☒ B. Tughlaq Dynasty
 - ☒ C. Mughal Dynasty
 - ☒ D. Khalji Dynasty

Q.95 The caves of Ajanta and Ellora are among the finest examples of some of the earliest ____ architecture, cave paintings and sculpture.

- Ans**
- ☒ A. Hindu
 - ☒ B. Jain
 - ☒ C. Buddhist
 - ☒ D. Rajput

Q.96 The Paithan (Jayakwadi) Hydro-electric project, completed with the help of Japan, is on the river _____.

- Ans**
- ☐ A. Narmada
 - ☐ B. Mahanadi
 - ☐ C. Krishna
 - ☒ D. Godavari

Q.97 Kathakali, is a classical dance-drama of _____.

- Ans**
- ☐ A. Andhra Pradesh
 - ☐ B. Tamil Nadu
 - ☒ C. Kerala
 - ☐ D. Manipur

Q.98 The headquarters of World Health organization (WHO) are located in:

- Ans**
- ☐ A. USA
 - ☐ B. South Africa
 - ☐ C. France
 - ☒ D. Switzerland

Q.99 Which of the following schemes was introduced by the Government of India to accelerate the Financial Inclusion?

- Ans**
- ☐ A. Krishi Vikas Yojana
 - ☐ B. Krishi Sinchai Yojana
 - ☐ C. Gram Jyoti Yojana
 - ☒ D. Jan Dhan Yojana

Q.100 Which of the following airports won the 'Golden Peacock Award for Corporate Social Responsibility (CSR)' in the transportation sector under the Aviation category for the year 2016?

- Ans**
- ☐ A. Trivandrum International Airport
 - ☒ B. Delhi International Airport (Private) Limited
 - ☐ C. Goa International Airport
 - ☐ D. Kempegowda International Airport



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	31/10/2018
Test Time	12:30 PM - 2:00 PM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 For a number to be divisible by 8, the last digit must be =?

Ans ☒ A. 4

☐ B. 3

☐ C. 1

☐ D. 5

Q.2 The LCM and HCF of two numbers are 68 and 5, respectively. If one number is 20, what is the other number?

Ans ☐ A. 14

☐ B. 15

☐ C. 17

☐ D. 19

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.3 The LCM of 36, 27 and 72 is:

Ans ☐ A. 108

☒ B. 216

☐ C. 324

☐ D. 432

Q.4 Evaluate:

$$36 \div \frac{1}{4}$$

Ans ☐ A. 9

☐ B. Reciprocal of 9

☒ C. 144

☐ D. Reciprocal of 144

Q.5 If $\sqrt{1296} = (?)^2$, then the value of (?) is:

- Ans
- ☐ A. 8
 - ☒ B. 6
 - ☐ C. 18
 - ☐ D. 12

Q.6 $\sqrt{\frac{?}{3136}} = \frac{1}{2}$ Find the value of ?

- Ans
- ☒ A. 784
 - ☐ B. 56
 - ☐ C. 28
 - ☐ D. 1568

Q.7 Shalini, Tanvir and Rashid shared a cake. Shalini had $\frac{1}{6}$ of it, Tanvir had $\frac{1}{4}$ of it and Rashid had the rest. What was Rashid's share of the cake?

- Ans
- ☐ A. $\frac{13}{15}$
 - ☒ B. $\frac{7}{12}$
 - ☐ C. $\frac{5}{6}$
 - ☐ D. $\frac{3}{5}$

Q.8 If $\sqrt{50} + \sqrt{128} = \sqrt{N}$, what is the value of N?

- Ans
- ☐ A. 26
 - ☐ B. 182
 - ☒ C. 338
 - ☐ D. 390

Q.9 In a company, 12 employees can make 111 candles in the given time. How many people are to be employed to make 148 candles in the same time?

- Ans
- ☐ A. 12 people
 - ☐ B. 10 people
 - ☒ C. 16 people
 - ☐ D. 18 people

Q.10 If $5 : 9 :: x : 27$, then $x = ?$

- Ans
- ☐ A. 3
 - ☒ B. 15
 - ☐ C. 18
 - ☐ D. 6

Q.11 A man sold two bicycles at a total profit of 20% . If he had bought them for ₹ 3,500 each and sold the first one at a profit of 5% , then for how much profit (%) he must make on the other one?

- Ans**
- ☐ A. 20%
 - ☐ B. 25%
 - ☐ C. 30%
 - ☒ D. 35%

Q.12 The cost prices of two items are ₹ 200 and ₹ 600. A shopkeeper gets a profit of ₹ 300 by selling both. If the shopkeeper sells the first item at a 30% profit, then at what profit does he sell the second item?

- Ans**
- ☐ A. 50%
 - ☐ B. 30%
 - ☒ C. 40%
 - ☐ D. 20%

Q.13 Distribute ₹ 400 among 6 men, 12 women and 17 boys in such a way that 2 men get equal amount as 5 boys and 2 women get equal amount as 3 boys. How much money was given to one man, one woman and one boy?

- Ans**
- ☐ A. ₹45
 - ☒ B. ₹40
 - ☐ C. ₹50
 - ☐ D. ₹38

Q.14 Divide ₹ 6600 into two parts so that the simple interest on the first part for 3 years at 10% per annum is equal to the simple interest on the second part for 4 years at 9% per annum.

- Ans**
- ☒ A. ₹ 3600, ₹ 3000
 - ☐ B. ₹ 4000, ₹ 2600
 - ☐ C. ₹ 5000, ₹ 1600
 - ☐ D. ₹ 6000, ₹ 600

Q.15 A train overtakes two persons who are walking in the same direction of train movement at the rate of 2 km/h and 4 km/h and passes them completely in 9 and 10 second respectively. Find the speed and the length of the train.

- Ans**
- ☒ A. 22 km/h, 50 m
 - ☐ B. 32 km/h, 50 m
 - ☐ C. 22 km/h, 80 m
 - ☐ D. 32 km/h, 80 m

Q.16 36% of 325 is:

- Ans**
- ☐ A. 128
 - ☐ B. 108
 - ☐ C. 144
 - ☒ D. 117

Q.17 Let V be the volume of a cube. If its edge is doubled then its volume becomes:

- Ans**
- ☒ A. 8V
 - ☐ B. 4V
 - ☐ C. 2V
 - ☐ D. 3V

Q.18 Find the number that is 30% more than 240.

- Ans** ☒ A. 312
☐ B. 320
☐ C. 331
☐ D. 340

Q.19 A tank can be filled by two taps A and B in 8 hours and 10 hours, respectively. The full tank can be emptied by a third tap in 12 hours. If all the taps are turned on at the same time, in how much time (in approximate number of hours) will the empty tank be filled completely?

- Ans** ☒ A. 7
☐ B. 8
☐ C. 9
☐ D. 10

Q.20 A father told his son, "My age at the time of your birth was equal to your present age". If the father's present age is 40 years, what was the son's age 5 years ago?

- Ans** ☒ A. 15 years
☐ B. 13 years
☐ C. 23 years
☐ D. 17 years

Q.21 The area of the circumcircle of a right angle triangle whose sides are given as 8 cm, $4\sqrt{5}$ cm and 12 cm, is given by _____.

- Ans** ☐ A. $9\pi \text{ cm}^2$
☐ B. $18\pi \text{ cm}^2$
☒ C. $36\pi \text{ cm}^2$
☐ D. $27\pi \text{ cm}^2$

Q.22 The frequency distribution of the diameters (D) of 100 steel balls is given in the following list.

D (mm)	43	44	45	46	47	48
Nos.	13	15	22	21	16	14

Find the median of the diameters in mm.

- Ans** ☐ A. 45.4
☐ B. 45.6
☐ C. 45.7
☒ D. 45.5

Q.23 The lengths of the three sides of a triangle are given as 6 cm, 11 cm and 13 cm. The ratio of their corresponding altitudes to the opposite vertices will be

- Ans** ☒ A. 143 : 78 : 66
☐ B. 13 : 11 : 6
☐ C. 66 : 143 : 78
☐ D. 24 : 19 : 17

Q.24 What is the square root of $(x^2 + 4x + 4)(x^2 + 6x + 9)$?

- Ans**
- ✓ A. $(x + 2)(x + 3)$
 - ✗ B. $(x + 2)(x + 4)$
 - ✗ C. $(x + 2)(2x + 3)$
 - ✗ D. $(2x + 3)(x + 3)$

Q.25 In a class of 40 students, the ratio of boys to girls is 7 : 3. The average marks of boys is 65 and that of girls is 72. What is the average marks of whole class?

- Ans**
- ✗ A. 68.4
 - ✗ B. 68.3
 - ✓ C. 67.1
 - ✗ D. 68.2

Section : General Intelligence and Reasoning

Q.26 Select the option that is related to the third term in the same way as the second term is related to the first term.
Hot : Warm :: Antique : _____

- Ans**
- ✓ A. Old
 - ✗ B. Oldest
 - ✗ C. History
 - ✗ D. Years

Q.27 Complete the following analogy.

Big : Large :: Thin : ?

- Ans**
- ✗ A. Weak
 - ✗ B. Skinny
 - ✓ C. Slim
 - ✗ D. Skelton

Q.28 In a code language, LIVE is written as OREV. What is the code for DEAD?

- Ans**
- ✗ A. UVZU
 - ✗ B. GVZG
 - ✓ C. WVZW
 - ✗ D. XVZX

Q.29 Select the option that is related to the third word on the same basis as the second word is related to the first word.
Enough : Contentment :: Feel : ?

- Ans**
- ✓ A. Sense
 - ✗ B. Leave
 - ✗ C. React
 - ✗ D. Act

Q.30 Given below are three statements followed by two conclusions numbered I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. Decide which of the conclusions follow/s from the statements.

Statements:

- 1) All blues are red.
- 2) No red is a green.
- 3) All greens are yellow.

Conclusions:

- I) All blues being yellow is a possibility.
- II) No blue is a yellow.

- Ans**
- ☒ A. Only conclusion I follows
 - ☒ B. Only conclusion II follows
 - ☒ C. Both conclusions I and II follow
 - ☒ D. Neither conclusion I nor II follow

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.31 If in a certain code, SILK becomes QGJI, which word would be coded as VOTE be in that code?

- Ans**
- ☒ A. TRCM
 - ☒ B. TMRC
 - ☒ C. RTCM
 - ☒ D. MTRC

Q.32 Read the given statement and conclusions carefully and select which of the conclusions logically follow(s) from the statement.

Statement:

There is a practice of mass copying in colleges in few states which leads to the poor quality of students in higher education

Conclusions:

1. Government should take strict action against those colleges who indulge in mass copying
2. Mass copying process in the college should be deducted with vigilance squad and any incident must be reported to higher authorities

- Ans**
- ☒ A. Only conclusion 1 follows
 - ☒ B. Only conclusion 2 follows
 - ☒ C. Either 1 or 2 follows
 - ☒ D. Both 1 and 2 follows

Q.33 In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement: Everybody loves the Indian costumes.

Assumptions:

- I. Indian Costumes are the only available costumes
- II. No other costumes are loved by anyone.

- Ans**
- ☒ A. Only assumption I is implicit
 - ☒ B. Only assumption II is implicit
 - ☒ C. Neither I nor II is implicit
 - ☒ D. Both I and II are implicit.

Q.34 Read the given statement and choose which argument is strong.

Question:

Should the government stop giving permission for the setup of new industries?

Arguments:

- I. Yes, new industries create environmental pollution.
- II. No, new industries will improve employment and help economic growth of the country.

- Ans**
- ☒ A. Only argument I is strong
 - ☒ B. Only argument II is strong
 - ☒ C. Neither argument I nor II is strong
 - ☒ D. Either argument I or II is strong

Q.35 Consider the statement and the following arguments and decide which of the arguments is/are strong with respect to the statement.

Statement:

We should practise walking with barefoot on the grass as it helps to balance the body's energies.

Arguments:

- I. Yes, walking on the grass keeps us rooted and connected to the earth energies and helps to maintain better health
- II. No, there are many other ways to gain health.

- Ans**
- ☒ A. Only argument I is strong
 - ☒ B. Only argument II is strong
 - ☒ C. Both arguments I and II are strong
 - ☒ D. Neither I nor II is strong

Q.36 Find the next number in the series
110, 89, 70, 53, 38, ?

- Ans**
- ☒ A. 20
 - ☒ B. 25
 - ☒ C. 34
 - ☒ D. 28

Q.37 ABCDEFGHIJKLMNOPQRSTUVWXYZ.

The 5th letter to the left of 9th letter from right is:

- Ans**
- ☒ A. M
 - ☒ B. L
 - ☒ C. N
 - ☒ D. K

Q.38 If a steel rod of length $40\frac{3}{5}$ is cut into three equal pieces, then the length of each piece is:

- Ans**
- ☒ A. $13\frac{9}{15}$
 - ☒ B. $13\frac{10}{15}$
 - ☒ C. $13\frac{7}{15}$
 - ☒ D. $13\frac{8}{15}$

Q.39 In below options, three words are similar in some context and one word is different. Choose the word which is different from the rest.

- Ans**
- ☒ A. Paper
 - ☒ B. Wool
 - ☒ C. Wood
 - ☒ D. Plastic

Q.40 Read the given question and decide which of the following statements is/are sufficient to answer the question.

Question:

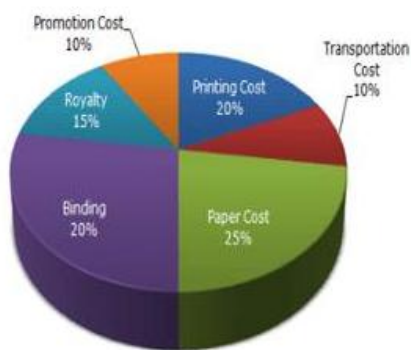
Which rod is the lengthiest among T1, T2 and T3?

Statements:

1. T2 is lengthier than T1 and T3.
2. T2 is a wrought iron rod.

- Ans**
- ☒ A. Statement 1 alone is sufficient.
 - ☒ B. Statements 1 and 2 together are insufficient.
 - ☒ C. Statement 2 alone is sufficient.
 - ☒ D. Statements 1 and 2 together are sufficient.

Q.41



The pie graph represents the expenditure of a publishing house in Karnataka. If the total expenditure is ₹ 50,000, then the binding cost is:

- Ans**
- ☒ A. ₹ 12500
 - ☒ B. ₹ 10000
 - ☒ C. ₹ 7500
 - ☒ D. ₹ 5000

Q.42 You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question:

Question:

How many students in a class play cricket?

Statements:

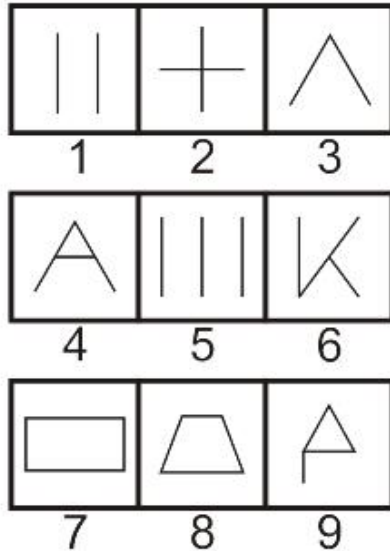
- I. There are 32 boys and 28 girls in the class.
- II. Only boys play cricket.

- Ans**
- ☒ A. Data in I alone is sufficient
 - ☒ B. Data in II alone is sufficient
 - ☒ C. Data either in I alone or II alone is sufficient
 - ☒ D. Data in both I and II together is not sufficient

Q.43 Last year, Mani's Corner invested ₹ 1,00,000 on Shop 1 and ₹ 1,50,000 on Shop 2 to change furniture. They retrieved the expense in the next three quarters: quarter 1 - 20%, quarter 2 - 55%. What was the amount (in ₹) that was retrieved in quarter 3?

- Ans**
- ☒ A. 60,500
 - ☒ B. 70,000
 - ☒ C. 62,600
 - ☒ D. 62,500

Q.44

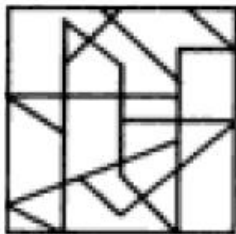


The figures that are similar in the above group is?

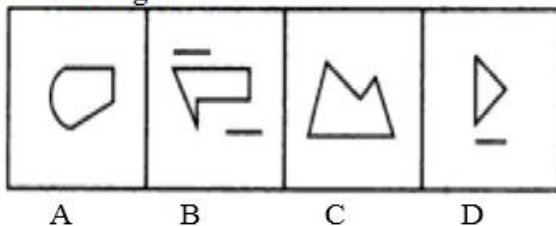
- Ans**
- ☒ A. 1, 2, 3 ; 5, 6, 8 ; 4, 7, 9
 - ☒ B. 1, 3, 2 ; 5, 6, 4 ; 8, 7, 9
 - ☒ C. 1, 2, 8 ; 5, 6, 3 ; 4, 7, 9
 - ☒ D. 1, 2, 5 ; 8, 6, 4 ; 2, 7, 9

Q.45 Select the answer figure which is embedded in the given problem figure.

Problem figure:

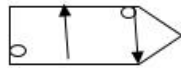
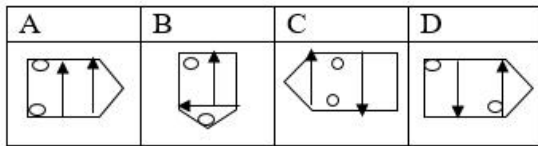


Answer figures:



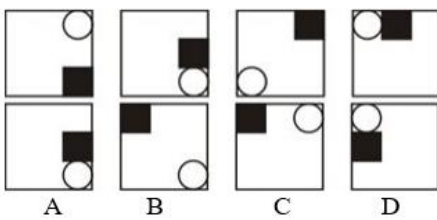
- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.46 Which of the options bears the closest resemblance to the following figure?



Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

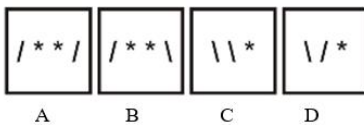
Q.47 Choose the correct picture which will follow in the sequence of the given four pictures.



Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D



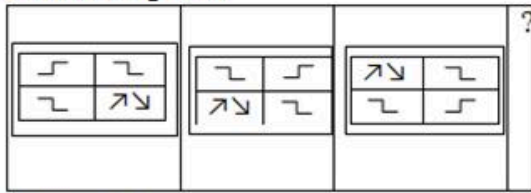
Choose the correct picture from the below options which comes next in the sequence of the above five pictures.



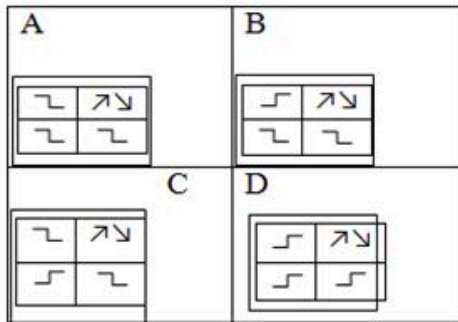
Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.49 Select the option figure that will complete the series of question figures.

Question figures:

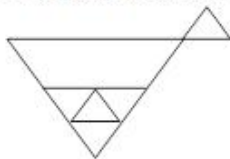


Option Figures:



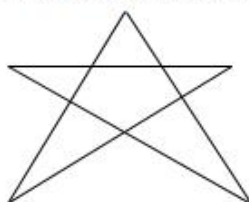
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.50 Find the number of triangles in the figure



- Ans
- ☒ A. 5
 - ☒ B. 6
 - ☒ C. 7
 - ☒ D. 8

Q.51 Find the number of triangles in the following figure.

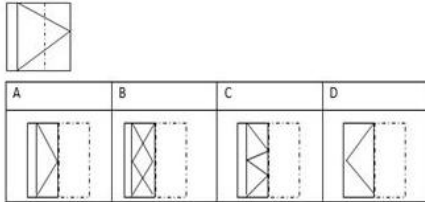


- Ans
- ☒ A. 6
 - ☒ B. 10
 - ☒ C. 11
 - ☒ D. 9

Q.52 A vendor sells three fragrances of scented candles. 20 customers bought rose scent, 40 bought cinnamon and 30 bought lemongrass. 6 bought all the three fragrances. 20 bought at least two of them. How many have bought exactly one fragrance?

- Ans**
- ☒ A. 34
 - ☒ B. 42
 - ☒ C. 43
 - ☒ D. 44

Q.53 Which pattern will the given transparent sheet resemble when it is folded at the dotted line?

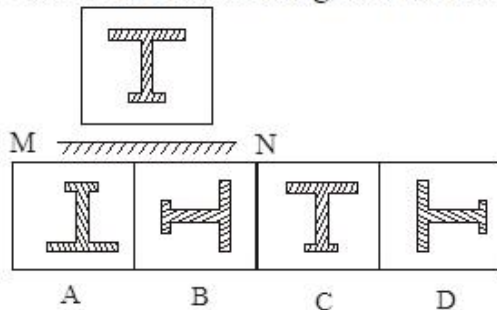


- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.54 Sandhya & Ramani were facing east direction. Sandhya turns 45° Anti Clock wise & then 135° Clock wise direction. How much turns Ramani would have to take to face opposite to Sandhya?

- Ans**
- ☒ A. 180° Anti Clockwise
 - ☒ B. 180° Clockwise
 - ☒ C. 90° Anti Clockwise
 - ☒ D. 135° Anti Clockwise

Q.55 Choose the mirror image for the following figure:



5

- Ans**
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Section : General Science

Q.56 Acceleration due to gravity $g = \underline{\hspace{2cm}}$.

- Ans**
- ☒ A. GM / R^2
 - ☒ B. MR^2 / G
 - ☒ C. G / MR^2
 - ☒ D. GMR^2

Q.57 The acceleration of a rocket at any instant is proportional to the n^{th} power of the velocity of the expelled gases, where the value of n must be:

- Ans**
- ☒ A. -1
 - ☒ B. 1
 - ☒ C. 2
 - ☒ D. -2

Q.58 Motion of a boy, sitting on a swing, is _____.

- Ans**
- ☒ A. periodic
 - ☒ B. non- uniform
 - ☒ C. uniform
 - ☒ D. circular

Q.59 Which of the following statements is true?

- A. The value of 'g' at Mount Everest is $>g$.
- B. The value of 'g' at Mount Everest is $<g$.
- C. A ball thrown up vertically returns to the ground after 15 second. Its velocity is 75m/s.
- D. A ball thrown up vertically returns to the ground after 15 second. Its velocity is 150m/s.

- Ans**
- ☒ A. Only statement B is true
 - ☒ B. Only statement D is true
 - ☒ C. Statements B and C are true
 - ☒ D. Statements B and D are true

Q.60 What is the amount of work done when a body moves under a force of 10 N at a distance of 10 m in the direction of the force?

- Ans**
- ☒ A. 0.01 J
 - ☒ B. 10 J
 - ☒ C. 1 J
 - ☒ D. 100 J

Q.61 Find the energy possessed by an object of mass 10 kg when it is at a height of 6 m above the ground. Given, $g = 9.8 \text{ m s}^{-2}$

- Ans**
- ☒ A. 578 J
 - ☒ B. 578 W
 - ☒ C. 588 W
 - ☒ D. 588 J

Q.62 Which of the following examples are of potential energy?

- a. A brick lying on the roof of a house.
- b. The spring of a watch when wound up.
- c. The compressed spring.
- d. Water stored up in elevated reservoir in water-supply system

- Ans**
- ☒ A. a, b and c
 - ☒ B. a, b, c, d
 - ☒ C. c, d
 - ☒ D. a, d

Q.63 In which of the following is the velocity of sound is maximum at 25 °C?

- Ans**
- ☐ A. Brass
 - ☐ B. Iron
 - ☒ C. Aluminium
 - ☐ D. Steel

Q.64 In a Concave mirror, where should the Object be placed to get a real, inverted and diminished image between C and F?

- Ans**
- ☐ A. At C
 - ☒ B. Beyond C
 - ☐ C. Between F and C
 - ☐ D. Between F and P

Q.65 The SI unit of resistance is:

- Ans**
- ☐ A. Volt
 - ☐ B. Ampere
 - ☒ C. Ohms
 - ☐ D. Coulomb

Q.66 The potential difference between the terminals of an electric heater is 60 V when it draws a current of 4 A from the source. What current will the heater draw if the potential difference is increased to 150 V?

- Ans**
- ☐ A. 24 A
 - ☐ B. 12 A
 - ☐ C. 8.5 A
 - ☒ D. 10 A

Q.67 How many moles are present in 54 g of He?

- Ans**
- ☐ A. 10 moles
 - ☒ B. 13.5 moles
 - ☐ C. 12 moles
 - ☐ D. 25 moles

Q.68 How many atoms are present in a molecule of Ca(OH)_2 ?

- Ans**
- ☐ A. 4
 - ☒ B. 5
 - ☐ C. 6
 - ☐ D. 7

Q.69 Which of the following is NOT a unit that measures temperature?

- Ans**
- ☐ A. Kelvin
 - ☐ B. Celsius
 - ☐ C. Fahrenheit
 - ☒ D. Pascal

Q.70 Which of the following is used as an antacid?

- Ans
- ☒ A. Lithium hydroxide
 - ☒ B. Magnesium hydroxide
 - ☒ C. Sodium hydroxide
 - ☒ D. Aluminium hydroxide

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.72 The boiling point of ethanol is:

- Ans
- ☒ A. 78°C
 - ☒ B. 108°C
 - ☒ C. 58°C
 - ☒ D. 98°C

Q.73 Alkenes, unsaturated hydrocarbon containing a double bond between two carbon atoms, have a general formula, which is:

- Ans
- ☒ A. $\text{C}_n\text{H}_{2n+2}$
 - ☒ B. $\text{C}_n\text{H}_{2n+1}$
 - ☒ C. C_nH_{2n}
 - ☒ D. $\text{C}_n\text{H}_{2n-1}$

Q.74 D block elements are found in:

- Ans
- ☒ A. between 2^{nd} to 10^{th} (3-12)
 - ☒ B. only 18^{th} group
 - ☒ C. only 8^{th} group element
 - ☒ D. 9^{th} group element

Q.75 The electronic configuration of an element is $1s^2 2s^2 2p^6 3s^2 3p^3$. What is the atomic number of the element that is just below the above element in the periodic table?

- Ans
- ☒ A. 33
 - ☒ B. 34
 - ☒ C. 31
 - ☒ D. 39

Q.76 In _____ tissue, the cells are living, elongated and irregularly thickened at the corners

- Ans
- ☒ A. Parenchyma
 - ☒ B. Sclerenchyma
 - ☒ C. Collenchyma
 - ☒ D. Aerenchyma

Q.77 In which of the following class, animals lack scales and have mucus glands in the skin?

- Ans
- ☒ A. Pisces
 - ☒ B. Reptiles
 - ☒ C. Amphibia
 - ☒ D. Aves

Q.78 The walls of the ventricles are _____ than atrial walls.

- Ans ☒ A. thicker
☐ B. thinner
☐ C. smaller
☐ D. larger

Q.79 Which of the following can reproduce by regeneration as well as budding?

- Ans ☐ A. Amoeba
☒ B. Hydra
☐ C. Plasmodium
☐ D. Yeast

Q.80 _____ brings about the changes in appearance seen in boys at the time of puberty.

- Ans ☐ A. Adrenaline
☐ B. Oestrogen
☒ C. Testosterone
☐ D. Prolactin

Section : General Awareness and Current Affairs

Q.81 The first football club of the world, which was founded in the year 1857 in England was _____.

- Ans ☐ A. Manchester United Football Club
☒ B. Sheffield Football Club
☐ C. Huddersfield Football Club
☐ D. Chelsea Football Club

Q.82 Padma Vibhushan was awarded to Vishwanathan Anand in the year _____.

- Ans ☐ A. 2003
☒ B. 2007
☐ C. 2005
☐ D. 2008

Q.83 The 'Bandodkar Gold Trophy' is associated with the game of _____.

- Ans ☐ A. Tennis
☐ B. Golf
☐ C. Kho-kho
☒ D. Football

Q.84 _____ is referred to as Shata Tantri Veena in Sanskrit text and has 72 strings.

- Ans ☐ A. Tambourine
☐ B. Sarood
☒ C. Sautoor
☐ D. Sitar

Q.85 Who is the author of 'Pashmina', a moving tale of an Indian American girl?

- Ans
- ☐ A. Roshani Chokshi
 - ☐ B. Aditi Khorana
 - ☐ C. Diksha Basu
 - ☒ D. Nidhi Chanani

Q.86 Which film has won the Global Sustainability film for India in London, 2018?

- Ans
- ☐ A. Pink
 - ☐ B. Queen
 - ☐ C. Neerja
 - ☒ D. Lipstick Under My Burkha

Q.87 Who is the 35th Governor of Bihar?

- Ans
- ☐ A. Devanand Konwar
 - ☐ B. D.Y. Patil
 - ☐ C. Ram Nath Kovind
 - ☒ D. Satya Pal Mailk

Q.88 As of August 2018, who is the current Chairman and Managing Director of Air India?

- Ans
- ☐ A. Ajay Singh
 - ☒ B. Pradeep Singh Kharola
 - ☐ C. Kalanithi Maran
 - ☐ D. Aditya Ghosh

Q.89 When is the National Army Day celebrated in India?

- Ans
- ☒ A. January 15th
 - ☐ B. July 15th
 - ☐ C. November 12th
 - ☐ D. December 12th

Q.90 The Higher and Technical Education Minister for the state of Maharashtra is _____.

- Ans
- ☐ A. Pankaja Munde
 - ☐ B. Chandrakant Patil
 - ☒ C. Vinod Tawde
 - ☐ D. Prakash Mehta

Q.91 Who is the first woman President of India?

- Ans
- ☐ A. Indira Gandhi
 - ☒ B. Pratibha Patil
 - ☐ C. Smita Patil
 - ☐ D. Prerana Patil

Q.93 As of June 2018, which political party is in power in Karnataka?

- Ans**
- ☐ A. BJP
 - ☒ B. Congress and JD (S) alliance
 - ☐ C. CPM
 - ☐ D. Only JD (S)

Q.94 _____, who took over as Governor- General in 1848, devised a policy called the 'Doctrine of Lapse'.

- Ans**
- ☐ A. Lord Wellesley
 - ☒ B. Lord Dalhousie
 - ☐ C. Lord William
 - ☐ D. Lord Cornwallis

Q.95 Nicolo Conti visited Vijayanagara in _____ AD during the reign of Devaraya II.

- Ans**
- ☐ A. 1418
 - ☐ B. 1424
 - ☒ C. 1420
 - ☐ D. 1419

Q.96 Where is Manjeera Crocodile Wildlife Sanctuary situated?

- Ans**
- ☐ A. Kerala
 - ☐ B. Tamil Nadu
 - ☐ C. Odisha
 - ☒ D. Telangana

Q.97 _____ is a holy town located in the state of Maharashtra in India.

- Ans**
- ☐ A. Rajgir
 - ☐ B. Somnath
 - ☒ C. Shiridi
 - ☐ D. Kushinagar

Q.98 Who is the present (as of July 2018) Union Minister of Environment & Climate Change?

- Ans**
- ☒ A. Dr.Harshvardhan
 - ☐ B. Prakash Jawadekar
 - ☐ C. Rajnath Singh
 - ☐ D. V.K.Singh

Q.99 Government of India has how much share in NABARD?

- Ans**
- ☐ A. 50%
 - ☒ B. 99%
 - ☐ C. 75%
 - ☐ D. 85%

Q.100 The first Indian State to launch the Single Women Pension Scheme is _____.

- Ans**
- ☐ A. Maharashtra
 - ☒ B. Telangana
 - ☐ C. Delhi
 - ☐ D. Gujrat



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	05/11/2018
Test Time	4:00 PM - 5:30 PM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 Find HCF of $\frac{7}{9}, \frac{14}{15}, \frac{7}{10}$.

- Ans
- ☒ A. $\frac{7}{45}$
 - ☒ B. $\frac{7}{90}$
 - ☐ C. $\frac{14}{45}$
 - ☐ D. $\frac{7}{675}$

Q.2 The sum of the digits of a two digit number is 9 also nine time this numbers is twice the number obtained by reversing the order of the digits. Find the number.

- Ans
- ☒ A. 18
 - ☐ B. 19
 - ☐ C. 28
 - ☐ D. 30

Q.3 Solve the below equation.

$$10 - [5 - \{6 - (5 - 4 - 3)\}] = ?$$

- Ans
- ☒ A. 13
 - ☐ B. 10
 - ☐ C. 8
 - ☐ D. 16

Q.4 Solve the below equation.

$$\frac{(0.125+0.255)}{0.5-0.03+0.005} = ?$$

Ans ☒ A. 0.8

☐ B. 1

☐ C. 0.08

☐ D. 0.2

Q.5 Solve the below equation.

$$\frac{1212}{0.5} = 6.06x ?$$

Ans ☐ A. 0.40

☐ B. 40

☒ C. 400

☐ D. 4

Q.6 The HCF of two numbers is 110 and their product is 290400. The LCM of these two numbers is:

Ans ☒ A. 2640

☐ B. 1320

☐ C. 3960

☐ D. 1980

Q.7 The ratio of two numbers is 7 : 11 and their HCF is 8. What is the LCM of these numbers?

Ans ☐ A. 1540

☐ B. 924

☐ C. 308

☒ D. 616

Q.8 If $\sqrt{75} + \sqrt{363} = \sqrt{N}$, what is the value of N?

Ans ☐ A. 27

☐ B. 438

☒ C. 768

☐ D. 729

Q.9 48 out of 60 is ____ %.

Ans ☒ A. 80

☐ B. 78

☐ C. 75

☐ D. 72

Q.10 The ratio of the number of boys to that of the girls in a school was 4 : 5. If there were 333 students in the school, how many of them were girls?

Ans ☐ A. 180

☒ B. 185

☐ C. 175

☐ D. 190

Q.11 The coordinates of the point that divides the line segment joining the points $(-7, 6)$ and $(5, 0)$ internally in the ratio $1 : 3$ are given by:

- Ans**
- ☒ A. $(3, 1)$
 - ☒ B. $(-4, 4.5)$
 - ☒ C. $(-3, 4)$
 - ☒ D. $(1, 3)$

Q.12 In an election, a candidate got 62% of the total votes polled and won the election by 35640 votes. The total number of votes cast, if no vote is declared invalid, is:

- Ans**
- ☒ A. 148500
 - ☒ B. 93790
 - ☒ C. 57484
 - ☒ D. 356400

Q.13 A is twice as good a workman as B. If together they finish the work in 14 days, then in how many days can it be done by B separately?

- Ans**
- ☒ A. 40 days
 - ☒ B. 21 days
 - ☒ C. 42 days
 - ☒ D. 35 days

Q.14 Mahesh alone takes 18 days to complete a piece of work, while Kishore alone takes 36 days to complete the same piece of work. If they work together for 6 days, what is the percentage of total work that is left?

- Ans**
- ☒ A. 30%
 - ☒ B. 40%
 - ☒ C. 60%
 - ☒ D. 50%

Q.15 A train passes by a stationary man standing on a platform in 5 seconds and passes by the platform completely in 25 seconds. If the length of the platform is 300 meters, what is the length of the train?

- Ans**
- ☒ A. 110 m
 - ☒ B. 75 m
 - ☒ C. 115 m
 - ☒ D. 150 m

Q.16 4th of October 2018 is a Thursday. What day would be 2nd of February 2019?

- Ans**
- ☒ A. Thursday
 - ☒ B. Friday
 - ☒ C. Saturday
 - ☒ D. Sunday

Q.17 A wall 4.84 m long and 3.1 m high is to be covered with $22 \text{ cms} \times 10 \text{ cms}$ tiles. Find out the total rate of tiles if each tile costs ₹ 1.50.

- Ans**
- ☒ A. ₹ 1,025
 - ☒ B. ₹ 1,020
 - ☒ C. ₹ 1,022
 - ☒ D. ₹ 1,023

Q.18 The sum of the present ages of a father and a son is 50 years. If 5 years ago, the ratio of their ages was 7 : 1, then the son's present age is:

- Ans** ☒ A. 10 years
☐ B. 15 years
☐ C. 9 years
☐ D. 14 years

Q.19 The current age of Sam is $1\frac{1}{4}$ times his age when he married 8 years ago. The age of his daughter today is a ninth of what Sam's age will be 5 years hence. Sam's daughter is now _____ years old.

- Ans** ☐ A. 4
☐ B. 5
☐ C. 6
☐ D. 7

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

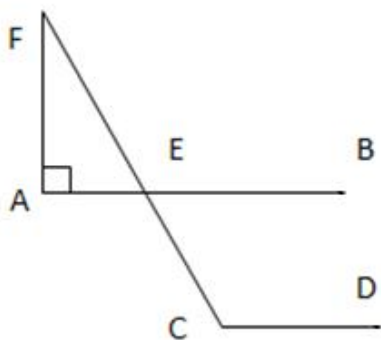
Q.20 The current age of Tom is $1\frac{1}{3}$ times his age when he married 10 years ago. The age of his daughter today is $1/11$ of what Tom's age will be 15 years hence. Tom's daughter is now _____ years old.

- Ans** ☐ A. 4
☐ B. 5
☐ C. 6
☐ D. 7

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.21 In the figure, $AB \parallel CD$

and $\angle AFE = 30^\circ$ then $\angle FCD$ is:



- Ans** ☐ A. 90°
☒ B. 120°
☐ C. 60°
☐ D. 45°

Q.22 If 10 reduced from 5 times a number is equal to 8 added to four times the number, then what is the number?

- Ans** ☐ A. 15
☒ B. 18
☐ C. 21
☐ D. 22

Q.23 If $\operatorname{cosec}(A - B) = \frac{\sec A \sec B}{\tan A - \tan B}$, then $\operatorname{cosec} 15^\circ = ?$

- Ans
- ☐ A. $\sqrt{6} + \sqrt{3}$
 - ☒ B. $\sqrt{6} + \sqrt{2}$
 - ☐ C. $\sqrt{6} - \sqrt{2}$
 - ☐ D. $\sqrt{6} - \sqrt{3}$

Q.24 The mean weight of six kids is 17.5 kg. If the individual weights of 5 of those kids are 14, 19, 23, 21 and 13 kg, respectively, find the weight of the sixth kid.

- Ans
- ☒ A. 15 kg
 - ☐ B. 16 kg
 - ☐ C. 17 kg
 - ☐ D. 18 kg

Q.25 If in 12 innings a batsman scores 38, 70, 48, 34, 42, 76, 55, 46, 63, 54, 80 and 44, then the mean deviation from the median is approximately:

- Ans
- ☐ A. 8.6
 - ☐ B. 9.6
 - ☐ C. 10.6
 - ☒ D. 12.17

Section : General Intelligence and Reasoning

Q.26 Lion is related to Roar, in the same way as Horse is related to _____.

- Ans
- ☐ A. Bray
 - ☐ B. Hiss
 - ☒ C. Neigh
 - ☐ D. Hoot

Q.27 Blue is related to Sky in the same way as Brown is related to:

- Ans
- ☐ A. Board
 - ☐ B. Vessel
 - ☐ C. Wet
 - ☒ D. Mud

Q.28 In a certain code language, 'pin tin fin' means 'delicious red food', 'tie dip sig' means 'beautiful yellow rose' and 'sig pan fin' means 'rose and food'. Which of the following stands for 'food' in that language?

- Ans
- ☐ A. pin
 - ☒ B. fin
 - ☐ C. tin
 - ☐ D. pan

Q.29 Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statements:

- All the cups are bowls.
- All bowls are spoons.

Conclusions:

1. Some cups are not spoons.
2. Some spoons are cups.

- Ans**
- ☒ A. Only conclusion 1 follows
 - ☒ B. Only conclusion 2 follows
 - ☒ C. Neither conclusion 1 nor 2 follows
 - ☒ D. Both conclusions 1 and 2 follows

Q.30 Read the given statement and choose which argument is strong.

Statement:

Luxury hotels should be banned in India.

Arguments:

- I. Yes. These places are turning into operating centers for international criminals.
- II. No. Well off foreign tourists won't be able to find a suitable place to stay.

- Ans**
- ☒ A. Only argument I is strong
 - ☒ B. Only argument II is strong
 - ☒ C. Either I or II is strong
 - ☒ D. Neither I nor II is strong

Q.31 Find the missing term in this series.

EARTH : HDUWK :: VENUS : _____?

- Ans**
- ☒ A. YQHXV
 - ☒ B. YHQXV
 - ☒ C. YQXHV
 - ☒ D. YQHVX

Q.32 Read the statements and identify whether the conclusion is true or false.

Statements:

- This examination was very easy.
- Biology paper was easier.

Conclusion:

Rahul had given Biology exam yesterday.

- Ans**
- ☒ A. True
 - ☒ B. False
 - ☒ C. Insufficient data
 - ☒ D. Definitely false

Q.33 Read the statement below followed by two course of action statements.

Statement:

Many government officers take bribe to do their duty

Course of action:

1. Anti-corruption bureau should be given free hand to trap and prosecute the corrupt employees
2. All corruption complaints on government employees are false

Read them carefully and decide which course of action follows logically.

Ans

- ✓ A. Only 1 follows
✗ B. Only 2 follows
✗ C. Both 1 and 2 follow
✗ D. Neither 1 nor 2 follows

Q.34 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

"Dogs love to play with kids" said Y to M.

Conclusions:

- I. Y has observed dogs.
- II. Dogs are friendly with kids.

Ans

- ✗ A. Conclusion I alone follows.
✗ B. Conclusion II alone follows.
✓ C. Both conclusions follow.
✗ D. Neither I nor II follows.

Q.35 Given below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement:

Detergents should be used to clean clothes.

Assumptions:

- I. Detergents reduces surface tension of water to clear dirt
- II. Detergents clear dirt and grease as well.

Ans

- ✗ A. Only assumption I is implicit
✗ B. Only assumption II is implicit
✗ C. Either assumption I or II is implicit
✓ D. Both assumptions I and II are implicit

Q.36 17, 22, 27, 32, _____ The sum of first 20 term in the series is:

Ans

- ✗ A. 1920
✓ B. 1290
✗ C. 1209
✗ D. 1295

Q.37 $\frac{8}{6}, \frac{6}{4}, \frac{5}{3}, \frac{9}{5}$

The largest fraction among the given ones is:

- Ans
- ☒ A. $\frac{8}{6}$
 - ☒ B. $\frac{6}{4}$
 - ☒ C. $\frac{5}{3}$
 - ☒ D. $\frac{9}{5}$

Q.38 What is the next term in the given series?

4A, 4Z, 12B, 12X, 36C, _____

- Ans
- ☒ A. 36V
 - ☒ B. 36W
 - ☒ C. 36U
 - ☒ D. 36Y

Q.39 In certain language MAT is written as 13+1+20 and FAN is written as 6 + 1 + 14. How is TANKS written in that language?

- Ans
- ☒ A. 19 + 1 + 14 + 11 + 20
 - ☒ B. 20 + 14 + 11 + 1 + 19
 - ☒ C. 20 + 11 + 1 + 14 + 19
 - ☒ D. 20 + 1 + 14 + 11 + 19

Q.40 Read the given question and decide which of the following statements is/are sufficient to answer the question.

Question:

Which word represents 'blue' in the code language?

Statements:

1. 'Here is a pen' is written as 'Hya eys e pena'.
2. 'Here is a blue pen' is written as 'Hya eys e Nel pena'.

- Ans
- ☒ A. Statement 1 alone is sufficient.
 - ☒ B. Statements 1 and 2 together are sufficient.
 - ☒ C. Statement 2 alone is sufficient.
 - ☒ D. Statements 1 and 2 together are insufficient.

Q.41 You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

Nayana has 6 net cloths of 4 different colours measuring 1 metre each. How many pink net cloths does she have?

Statements:

1. Nayana has 1 white net cloth.
2. One-fifth of the remaining cloths are red and the number of red and blue cloths are the same.

- Ans
- ☒ A. Statement 1 alone is sufficient.
 - ☒ B. Statement 2 alone is sufficient.
 - ☒ C. Statements 1 and 2 together are not sufficient.
 - ☒ D. Statements 1 and 2 together are sufficient.

Q.42 You are given a question and three statements. Identify which of the statements is/are necessary/sufficient to answer the question.

Question:

Find the age of M 10 years from now.

Statements:

1. L is 2 years old now.
2. M is L's older sister.
3. M's age is half of five-times the age of L.

- Ans**
- ☒ A. Statement 1 alone is sufficient.
 - ☒ B. Statement 2 alone is sufficient.
 - ☒ C. Statement 1, 2 and 3 together are insufficient.
 - ☒ D. Statement 1 and 3 together are sufficient.

Q.43 Which of the statements is sufficient to answer the question?

Question:

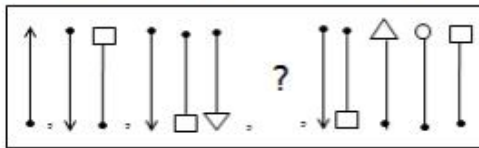
Find the total number of balls in a bag.

Statements:

1. The bag contains 6 blue, 10 red and 7 yellow balls.
2. The bag contains blue, red and yellow coloured balls only

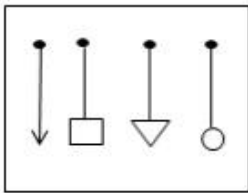
- Ans**
- ☒ A. Only statement 1 is sufficient
 - ☒ B. Only statement 2 is sufficient
 - ☒ C. Both statements 1 and 2 are sufficient
 - ☒ D. Either statement 1 or 2 is sufficient

Q.44 Find missing figure in the given series.

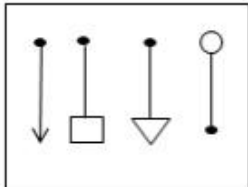


Ans

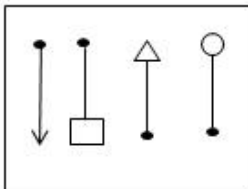
☒ A.



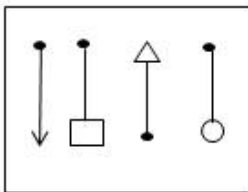
☒ B.



☒ C.



☒ D.



Note (Qmaths): answer key not saved - the saved response sheet shows no correct option for this question.

Q.45 In a certain language, 'MALA CHAHA HAVA' is coded as 'piu naka chaha', 'HAVA GAAR AHE' is coded as 'chaha kadu asto' and 'CHAHA GAAR PYA' is coded as 'piu shaklo asto'. What is the code for 'CHAHA HAVA GAAR HAVA' in that language?

Ans

☒ A. kadu chaha asto chaha

☒ B. piu shakto kadu chaha

☒ C. piu chaha asto chaha

☒ D. gaar asto kadu chaha

Q.46 Out of the four given figures, three are similar in a certain manner. However, one figure is NOT like the other three.

18 P	4 D	7 G	8 H
A	B	C	D

Select the figure which is different from the rest.

Ans

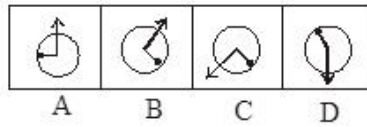
☒ A. A

☒ B. B

☒ C. C

☒ D. D

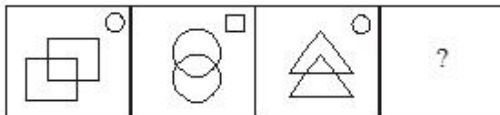
Q.47 Choose the figure which is different from the others in the given set.



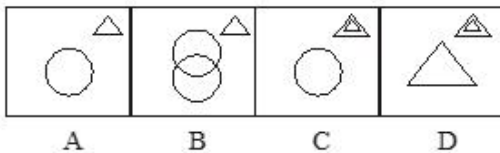
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.48 Find the next figure in the given series.

Problem figures:



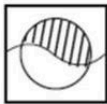
Answer figures:



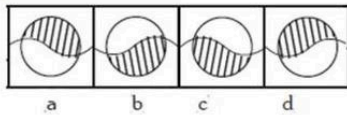
- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Q.49 You are given a figure followed by four alternatives (a), (b), (c) and (d). Choose the alternatives which is closely resembles the water image of the given figure.

Problem Figure:



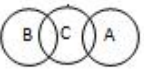
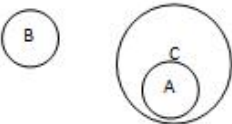
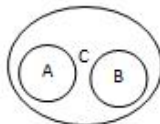
Answer Figure:



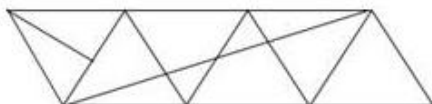
Ans ☒ A. a
☒ B. b
☒ C. c
☒ D. d

Q.50 Which of the following correctly represents the relationship between:

- A) Ear
- B) Nose
- C) Face

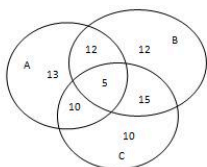
Ans ☒ A. 
☒ B. 
☒ C. 
☒ D. 

Q.51 How many triangles are there in the following figure?



Ans ☒ A. 10
☒ B. 14
☒ C. 8
☒ D. 22

- Q.52** The given Venn diagram represents the sports preferences of a group of college students. There are three games: A - Badminton, B - Basketball and C - Tennis. How many students play at least one game?



- Ans** ☒ A. 77
☒ B. 5
☒ C. 17
☒ D. 35
- Q.53** Sangitha was facing north-west direction. If she was playing carom with Sudha in the standard seating pattern, in which direction was Sudha facing?
- Ans** ☒ A. South-east
☒ B. South-west
☒ C. North-west
☒ D. North-east
- Q.54** At point O, facing east a person walks 2 km to reach point A. Then, he turns right, walks 4 km and reaches point B. Then, he turns left, walks 2 km and reaches point C. Then, he turns left, walks 8 km and reaches point D. Then, he turns left, walks 8 km and reaches point E. Then, he turns left, walks 4 km and reaches point F. The shortest distance between point C and point E is ___ km.
- Ans** ☒ A. 128
☒ B. $6\sqrt{2}$
☒ C. $2\sqrt{2}$
☒ D. $8\sqrt{2}$
- Q.55** Kajal walks 25 m to the south of her house, turns left and goes another 10 m. Then turning to the north, she goes 20 m and then starts walking to her house. In which direction is she walking now?
- Ans** ☒ A. North-West
☒ B. North
☒ C. South-East
☒ D. East

Section : General Science

- Q.57** In the formula $F = \frac{GMm}{d^2}$, what is G called?
- Ans** ☒ A. Universal gravitational constant
☒ B. Acceleration due to gravity
☒ C. Gravitational Force
☒ D. Greater height
- Q.58** Linear momentum is equal to:
- Ans** ☒ A. Mass $\times$ volume
☒ B. Speed $\times$ weight
☒ C. Force $\times$ height
☒ D. Mass $\times$ velocity

Q.60 Work can only be done when there is _____.

- Ans
- ☐ A. Power
 - ☒ B. Energy
 - ☐ C. Force
 - ☐ D. Momentum

Q.61 When the angle between the force and the displacement is 90° , the work done is _____.

- Ans
- ☐ A. positive
 - ☐ B. negative
 - ☒ C. zero (no work is done)
 - ☐ D. neutral

Q.62 746 Watts is known as:

- Ans
- ☐ A. 1 KW
 - ☒ B. 1 Horse power
 - ☐ C. 1 Joule
 - ☐ D. 1 Pascal

Q.63 _____ is a quantity that does NOT describe the nature of a wave.

- Ans
- ☐ A. Wavelength
 - ☐ B. Frequency
 - ☐ C. Wave speed
 - ☒ D. Altitude

Q.64 In longitudinal waves, the particles vibrate in a _____ direction of propagation.

- Ans
- ☐ A. perpendicular
 - ☒ B. parallel
 - ☐ C. semicircular
 - ☐ D. planar

Q.65 A current of 0.5 A is drawn by a filament for 10 minutes. Find the amount of electric charge that flows through the circuit.

- Ans
- ☐ A. 5 C
 - ☐ B. 30 C
 - ☒ C. 300 C
 - ☐ D. 350 C

Q.66 A $10\ \Omega$ resistance wire is doubled on it. Calculate the new resistance of the wire.

- Ans
- ☐ A. $2.25\ \Omega$
 - ☐ B. $1.00\ \Omega$
 - ☐ C. $1.25\ \Omega$
 - ☒ D. $2.5\ \Omega$

Q.67 Which of the following will have maximum mass?

- Ans
- ✓ A. 0.1 mole of NH_3
 - ✗ B. 1022 atoms of Carbon
 - ✗ C. 1022 molecules of CO_2
 - ✗ D. 1 gm of Iron

Q.68 _____ proposed that each element had a characteristic atomic mass.

- Ans
- ✗ A. Kanad
 - ✗ B. Lavoisier
 - ✗ C. Democritus
 - ✓ D. Dalton

Q.69 Which of the following will NOT diffuse?

- Ans
- ✗ A. Smoke
 - ✗ B. Vapour of scent
 - ✓ C. Powdered fenugreek
 - ✗ D. The smoke of an incense stick

Q.70 Which of the following combines with O_2 in our body to provide energy?

- Ans
- ✗ A. Glycogen
 - ✓ B. Glucose
 - ✗ C. Amino acids
 - ✗ D. Fatty acids

Q.71 Which of the following statements is/are true/false ?

Statement

A. An acid which is completely ionized into ions and produces large number of H^+ ions. For example $\text{HCl}, \text{H}_2\text{SO}_4, \text{NH}_4\text{Cl}$

B. An acid which is partially ionized in water and produces less number of H^+ ions. For example $\text{CH}_3\text{COOH}, \text{H}_2\text{CO}_3, \text{H}_2\text{SO}_3$

- Ans
- ✗ A. Only A is true
 - ✓ B. Only B is true
 - ✗ C. Both A and B are true
 - ✗ D. Both A and B are false

Q.72 The bonds formed by the elements having larger atoms are:

- Ans
- ✗ A. stronger
 - ✗ B. weaker
 - ✗ C. very strong
 - ✓ D. very weak

Q.73 A reaction in which one or more molecules of a substance are added across a double or triple bond is called:

- Ans**
- ☐ A. Esterification
 - ☐ B. Functional group
 - ☒ C. Addition reaction
 - ☐ D. Saponification

Q.74 In the Modern Periodic Table, which of the following periods has the maximum number of non-metals?

- Ans**
- ☐ A. 1
 - ☒ B. 2
 - ☐ C. 3
 - ☐ D. 4

Q.75 An element has electronic configuration 2,8,6. It belongs to _____.

- Ans**
- ☐ A. 1 group and 1 period
 - ☐ B. 2 group and 2 period
 - ☒ C. 16 group and 3 period
 - ☐ D. 6 group and 2 period

Q.76 Which of the following statements is true?

Statements:

A: Four types of elements together make up the xylem tissue.

B: The non-living cell of phloem is called the companion cell.

- Ans**
- ☒ A. Only statement A is true, B is false
 - ☐ B. Only statement B is true, A is false
 - ☐ C. Statements A and B are false
 - ☐ D. Statements A and B are true

Q.77 _____ fills the space inside the organs and supports the internal organs and helps in repair of tissue.

- Ans**
- ☐ A. Ligament
 - ☐ B. Tendons
 - ☐ C. Adipose
 - ☒ D. Areolar

Q.78 The common passage for food and air in human being is:

- Ans**
- ☐ A. Esophagus
 - ☐ B. Nasal cavity
 - ☐ C. Larynx
 - ☒ D. Pharynx

Q.79 Which of the following DO NOT take part in vegetative propagation?

- Ans**
- ☐ A. Root
 - ☐ B. Stem
 - ☐ C. Leaf
 - ☒ D. Flower

Q.80 During which of the following types of reproduction do the fully matured tiny individuals detach from the parent body and become new independent individuals?

- Ans**
- ☐ A. Fission
 - ☐ B. Multiple fission
 - ☒ C. Budding
 - ☐ D. Regeneration

Section : General Awareness and Current Affairs

Q.81 The first Paralympic Games were held in _____.

- Ans**
- ☐ A. Milan, Italy in 1956
 - ☒ B. Rome, Italy in 1960
 - ☐ C. Paris, France in 1960
 - ☐ D. Athens, Greece in 1956

Q.82 Gopi Thonakal created history by becoming the first Indian man to win Asian ____ Championship.

- Ans**
- ☒ A. Marathon
 - ☐ B. Badminton
 - ☐ C. Judo
 - ☐ D. Wrestling

Q.83 "Tee, Par, Flagstick" are associated with _____

- Ans**
- ☐ A. cricket
 - ☐ B. tennis
 - ☒ C. golf
 - ☐ D. hockey

Q.84 Who was the revolutionary leader that improved the Land reform and Literacy in Cuba?

- Ans**
- ☐ A. Col. Gadaffi
 - ☒ B. Fidel Castro
 - ☐ C. Fulgencio Batista
 - ☐ D. Che Guvera

Q.85 Name the upcoming animated film, the first such one in Sanskrit language, which is crowd-funded and crowd-sourced?

- Ans**
- ☐ A. Nandhini
 - ☐ B. Vyaghrah
 - ☐ C. Kamadhenu
 - ☒ D. Punyakoti

Q.86 What is the theme of the 10th edition of the Jaipur Literature Festival?

- Ans**
- ☒ A. Happiness Unlimited
 - ☒ B. Nirbhaya: India at 70
 - ☒ C. The Freedom to Dream: India at 70".
 - ☒ D. Green India

Q.87 Name the journalist who was conferred with the Kuldip Nayar journalism award in March 2017.

- Ans**
- ☒ A. Ravish Kumar
 - ☒ B. Vinod Dua
 - ☒ C. Arnab Goswami
 - ☒ D. Rajdeep Sardesai

Q.88 Which veteran Bengali actor has been selected for France's highest civilian award, Legion of Honor?

- Ans**
- ☒ A. Sharmila Tagore
 - ☒ B. Soumitra Chatterjee
 - ☒ C. Konkana Sen
 - ☒ D. Moushumi Chatterjee

Q.89 Who is popularly known as "Rocket Man" for his significant contribution in the development of cryogenic engines for India's space programme?

- Ans**
- ☒ A. K. Sivan
 - ☒ B. Pratik Barve
 - ☒ C. Ashok Khadolia
 - ☒ D. Pawan Chandana

Q.90 Which Union Minister launched the first 'NIC-CERT' in New Delhi to prevent and predict cyber attacks on government utilities?

- Ans**
- ☒ A. Sushma Swaraj
 - ☒ B. Arun Jaitley
 - ☒ C. Ravi Shankar Prasad
 - ☒ D. Shri Kalraj Mishra

Q.91 Which state government will launch a digital platform named 'Seva Sindhu'? The platform will provide government services at the doorsteps of people and provide employment to educated youth in rural areas.

- Ans**
- ☒ A. Karnataka
 - ☒ B. Andhra Pradesh
 - ☒ C. Tamil Nadu
 - ☒ D. Kerala

Q.92 Indian Prime Minister Narendra Modi recently launched three Indian digital payment apps in a foreign country. Name the country.

- Ans**
- ☒ A. Bangladesh
 - ☒ B. Singapore
 - ☒ C. Malaysia
 - ☒ D. Dubai

Q.93 Which of the following countries is not a democratic country?

4

- Ans**
- ☐ A. UK
 - ☐ B. USA
 - ☒ C. China
 - ☐ D. India

Q.94 In _____, the English East India Company sent an education dispatch to India which came to be known as Wood's Despatch.

- Ans**
- ☐ A. 1852
 - ☐ B. 1856
 - ☒ C. 1854
 - ☐ D. 1858

Q.95 The Ryotwari settlement was introduced in the year _____.

- Ans**
- ☐ A. 1793
 - ☒ B. 1820
 - ☐ C. 1830
 - ☐ D. 1765

Q.96 Mohiniyattam is a traditional dance from South India, specifically from the state of _____ in India.

- Ans**
- ☒ A. Kerala
 - ☐ B. Andhra Pradesh
 - ☐ C. Tamil Nadu
 - ☐ D. Karnataka

Q.97 Kuchipudi is the classical dance form from the South-East Indian state of _____.

- Ans**
- ☒ A. Andhra Pradesh
 - ☐ B. Tamil Nadu
 - ☐ C. Karnataka
 - ☐ D. Kerala

Q.98 In the context of Indian economy, which of the following is a subject under the tertiary sector?

- Ans**
- ☐ A. Industries
 - ☐ B. Agriculture
 - ☒ C. Health
 - ☐ D. Animal husbandry

Q.99 Who publishes the biannual 'Financial Stability Report'?

- Ans**
- ☐ A. Ministry of Finance
 - ☐ B. NABARD
 - ☐ C. Central Bank of India
 - ☒ D. Reserve Bank of India

Q.100 Name the Indian Space Research Organisation's (ISRO's) first solar mission to take off in 2019 to study Sun.

Ans

 A. Aditya M1

 B. Aditya S1

 C. Aditya R1

 D. Aditya L1

Blackbook



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	27/11/2018
Test Time	9:00 AM - 10:30 AM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 The value of $\sqrt{\frac{256 \times 289}{4^3}}$ is:

- Ans
- ✓ A. 34
 - ✗ B. 17
 - ✗ C. 4.25
 - ✗ D. 8.50

Q.2 The value of $21 + \{36 \div (5 + 4)\} + 7(-4)$ is:

- Ans
- ✗ A. -3.4
 - ✗ B. -21.7
 - ✓ C. -3
 - ✗ D. -19

Q.3 If 2.35 kg tomatoes cost ₹ 34.55, then what is the cost of 4.15 kg of tomatoes? (rounded off to two decimal places).

- Ans
- ✗ A. ₹ 141.84
 - ✓ B. ₹ 61.01
 - ✗ C. ₹ 19.15
 - ✗ D. ₹ 43.24

Q.4 What is the square root of 41616?

- Ans
- ✓ A. 204
 - ✗ B. 214
 - ✗ C. 196
 - ✗ D. 194

Q.5 The value of $7 + 3 \times \{15 \div (12 - 9) \times 5\}$ is:

- Ans**
- ☐ A. 15
 - ☐ B. 10
 - ☒ C. 82
 - ☐ D. 54

Q.6 The lengths of one of the two sides containing the right angle in a right-angled triangle and its hypotenuse are 9 cm and 41 cm respectively. What is the length of the third side?

- Ans**
- ☐ A. $\sqrt{369}$ cm
 - ☐ B. 35 cm
 - ☐ C. 32 cm
 - ☒ D. 40 cm

Q.7 The value of $\sqrt{214 + \sqrt{107 + \sqrt{196}}}$ is:

- Ans**
- ☐ A. 23
 - ☒ B. 15
 - ☐ C. 24
 - ☐ D. 18

Q.8 How many factors does the number 4000 have?

- Ans**
- ☒ A. 24
 - ☐ B. 25
 - ☐ C. 26
 - ☐ D. 27

Q.9 If 375 marbles are shared between Vihan and Rihana in the ratio 7 : 8, Rihana will get _____ marbles.

- Ans**
- ☐ A. 225
 - ☐ B. 125
 - ☐ C. 250
 - ☒ D. 200

Q.10 27% of 900 is:

- Ans**
- ☐ A. 238
 - ☐ B. 275
 - ☒ C. 243
 - ☐ D. 252

Q.11 ₹ 600 was given to two persons, at 5% annual interest rate to the first person and at 10% to the second person. After one year, the sum of the interest for both was ₹ 40. Find the amount given to the first person.

- Ans**
- ☐ A. ₹ 420
 - ☒ B. ₹ 400
 - ☐ C. ₹ 200
 - ☐ D. ₹ 380

Q.12 A sum of money was divided between Ethane and Jane in the ratio 4 : 7. If Jane gave ₹ 1 to Ethane, the ratio would have changed to 7 : 12. What is the sum of money in question?

- Ans**
- ☐ A. ₹ 190
 - ☒ B. ₹ 209
 - ☐ C. ₹ 198
 - ☐ D. ₹ 220

Q.13 Two pipes, A and B, can fill a tank in 3 and 4 hours, respectively. Another pipe, C, can empty the filled tank in 6 hours. If A and B are opened at 8 AM and run for 1.5 hours and then C is opened as well, calculate the time when the tank will be fully filled:

- Ans**
- ☐ A. 9:20 AM
 - ☐ B. 8:30 AM
 - ☐ C. 9:18 AM
 - ☒ D. 9:48 AM

Q.14 If Manish alone takes 72 days to complete a piece of work, and Shivam alone takes 90 days to complete the same piece of work. If they work together for 20 days, what is the percentage of total work that is left?

- Ans**
- ☐ A. 40 %
 - ☐ B. 55 %
 - ☐ C. 65 %
 - ☒ D. 50 %

Q.15 A 350-m-long train is running at a speed of 54 km/h. How long will the train take to pass a jogger jogging at a speed of 9 km/h in a direction opposite to the running train?

- Ans**
- ☐ A. 6 seconds
 - ☐ B. 15.6 seconds
 - ☐ C. 12 seconds
 - ☒ D. 20 seconds

Q.16 Two inlet pipes, one 4.5 times as efficient as the other, alongside an outlet pipe that can drain a filled cistern empty in 9 hours, can fill the empty cistern in 7.5 hours when working together. How many hours will the less efficient inlet pipe alone take to fill the empty cistern?

- Ans**
- ☐ A. 13.5
 - ☐ B. 18
 - ☒ C. 22.5
 - ☐ D. 27

Q.17 A rectangular lawn is 60 meters long and 40 meters wide. The time taken by a man to walk along its diagonal at the speed of 3km/hrs is approximately:

- Ans**
- ☐ A. 92.5 sec
 - ☐ B. 84.5 sec
 - ☐ C. 81.5 sec
 - ☒ D. 86.5 sec

Q.18 Three pumps can fill a water tank separately in 15, 20, and 30 hours, respectively. The three pumps are started together at 8 a.m. when the tank is already one-fifth full. The first pump is stopped after 4 hrs. The third pump is stopped after 2 more hours. At what time will the tank be full?

- Ans**
- ☐ A. 2:30 p.m.
 - ☐ B. 3:20 p.m.
 - ☒ C. 2:40 p.m.
 - ☐ D. 1:20 a.m.

Q.19 15th of August 2019 will be a Thursday. In which of the years given below will 15th of August also be a Thursday?

- Ans**
- ☒ A. 2022
 - ☒ B. 2023
 - ☒ C. 2024
 - ☒ D. 2025

Q.20 22nd of August 2019 will be a Thursday. In which of the years given below will 22nd of August also be a Thursday?

- Ans**
- ☒ A. 2022
 - ☒ B. 2023
 - ☒ C. 2024
 - ☒ D. 2025

Q.21 If $\log \frac{a}{b} + \log \frac{b}{a} = \log(a + b)$, then which of the following will hold true?

- Ans**
- ☒ A. $a + b = 1$
 - ☒ B. $a - b = 1$
 - ☒ C. $a = b$
 - ☒ D. $a^2 - b^2 = 1$

Q.22 Given that

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}, \text{ what is the value of } \tan 75^\circ?$$

- Ans**
- ☒ A. $2 + \sqrt{3}$
 - ☒ B. $2 - \sqrt{3}$
 - ☒ C. $2 + 2\sqrt{3}$
 - ☒ D. $2 - 2\sqrt{3}$

Q.23 A road 3.5 m wide surrounds a circular park whose circumference is 176 m. Find the cost of paving the road at the rate of ₹ 60 per square metre.

- Ans**
- ☒ A. ₹ 39,270
 - ☒ B. ₹ 39,250
 - ☒ C. ₹ 39,370
 - ☒ D. ₹ 39,290

Q.24 Divide 36 into two parts, such that 5 times of the first part is more than 8 times of the second part by 24?

- Ans**
- ☒ A. 20,16
 - ☒ B. 24,12
 - ☒ C. 22,14
 - ☒ D. 26,10

Q.25 If $4\sin^2\theta - 1 = 0$ and θ is an acute angle, then the value of $\cos 2\theta$ is:

- Ans**
- ☐ A. 1
 - ☒ B. $\frac{1}{2}$
 - ☐ C. $\frac{1}{4}$
 - ☐ D. $\frac{3}{4}$

Section : General Intelligence and Reasoning

Q.26 If INDIAN is coded as NADINI, in the same way as EXPERT can be coded as _____?

- Ans**
- ☐ A. TREPXE
 - ☒ B. TRPEXE
 - ☐ C. TREPEX
 - ☐ D. RTPEXE

Q.27 New is related to Old in the same way as Day is related to:

- Ans**
- ☒ A. Night
 - ☐ B. Bright
 - ☐ C. Sun
 - ☐ D. Time

Q.28 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statements:

No tiger is a lion.

Some cats are lions.

All tigers are trees.

Conclusions:

I. Some trees are lions.

II. No lion is a tree.

III. Some cats are tigers.

- Ans**
- ☐ A. Only I follows
 - ☐ B. Only II follow
 - ☐ C. Either I or III follows
 - ☐ D. Both I and II follow

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.29 Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statements:

- All vans are bats.
- All cows are bats.

Conclusions:

1. All vans are cows.
2. Some cows are vans.

- Ans**
- ☒ A. Only conclusion 1 follows
 - ☒ B. Only conclusion 2 follows
 - ☒ C. Neither conclusion 1 nor 2 follows
 - ☒ D. Both conclusions 1 and 2 follow

Q.30 If in certain code, FORGET is written as DQPICV, then in the same code, SACHIN will be written as:

- Ans**
- ☒ A. QAJCGP
 - ☒ B. QCJAGP
 - ☒ C. QACJGP
 - ☒ D. QCAJGP

Q.31 In a code, SUNDAY is coded as HFMWZB, then how would FRIDAY be coded?

- Ans**
- ☒ A. UIRWZB
 - ☒ B. UIZBRW
 - ☒ C. IRWBU
 - ☒ D. UBIZWU

Q.32 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement: Ram, despite his busy schedule, attended his friend's wedding. Relationships are to be maintained.

Conclusions:

- I. Ram maintains good relationships.
- II. Ram engages himself all the time.

- Ans**
- ☒ A. Only conclusion I follows
 - ☒ B. Only conclusion II follows
 - ☒ C. Neither I nor II follows
 - ☒ D. Both I and II follow

Q.33 Consider the following statement and decide which of the conclusions follow from the statement.

Statement:

Rinky says to Renu, "Your mobile has all the latest features."

Conclusions:

- I. Rinky is tech savvy.
- II. Rinky likes Renu's mobile.

- Ans**
- ☒ A. Conclusion I alone follows
 - ☒ B. Conclusion II alone follows
 - ☒ C. Both the conclusions follow
 - ☒ D. Neither conclusion I nor II follows

Q.34 A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement.

Statement:

For people with deep rooted ideologies, change is difficult to accept and adopt.

Arguments:

- I. There cannot be any change in the current social structure.
- II. As the society moves ahead in its overall beliefs, we are expected to change and adopt newer ways of lifestyle and social changes.

- Ans**
- ☒ A. Only I is strong.
 - ☒ B. Only II is strong.
 - ☒ C. Both I and II are strong.
 - ☒ D. Neither I nor II is strong.

Q.35 Consider the statements and the following assumptions and decide which of the assumptions is/are implicit in the statement

Statement:

The chief guest at a painting exhibition applauded the paintings of a very renowned artist for his marvelous work

Assumptions:

- I. The painter is a very established famous artist
- II. The chief guest was impressed by his art work

- Ans**
- ☒ A. Only I is implicit
 - ☒ B. Only II is implicit
 - ☒ C. Both I and II are implicit
 - ☒ D. Neither I nor II is implicit

Q.36 In the Arithmetic Progressive series 5, 11, 17, ... what will be the 23rd term?

- Ans**
- ☒ A. 137
 - ☒ B. 139
 - ☒ C. 140
 - ☒ D. 135

Q.37 Complete the series:

AZB, CYD, EXF, GWH, IVJ, _____?

- Ans**
- ☒ A. KWL
 - ☒ B. KUM
 - ☒ C. KUL
 - ☒ D. KTL

Q.38 Find the next term in this series

2C3, 6G7, 10K11, _____?

- Ans**
- ☒ A. 14O15
 - ☒ B. 13N14
 - ☒ C. 13N15
 - ☒ D. 13O14

Q.39 Complete the series by choosing the correct term from options.

Z1, Y2, X3, 2, ?

- Ans**
- ☒ A. V5, W6
 - ☒ B. V5, W4
 - ☒ C. W4, V5
 - ☒ D. W4, V6

Q.40 Read the given question and decide which of the following statements is/are sufficient to answer the question.

Question:

L, O, P and Q are standing in a circle. Who is standing to the right of P?

Statements:

1. P is the shortest of all.
2. L is standing to the left of Q and O is standing to the right of Q.

- Ans**
- ☒ A. Statement 1 alone is sufficient.
 - ☒ B. Statement 2 alone is sufficient.
 - ☒ C. Statements 1 and 2 together are insufficient.
 - ☒ D. Statements 1 and 2 together are sufficient.

Q.41 You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

Question:

There are 3 ply boards of different sizes. Which ply has the maximum area?

Statements:

1. Ply1 is a square of width 15 cm.
2. 1 rectangular board with breadth 12 cm and length of 20 cm.

- Ans**
- ☒ A. Statement 1 and 2 together are sufficient.
 - ☒ B. Statement 1 alone is sufficient.
 - ☒ C. Statement 2 alone is sufficient.
 - ☒ D. The statements are not sufficient.

Q.42 The total income of a company increased from ₹ 30 lakhs to ₹ 50 lakhs from year 1 to year 2. At the end of the third year, the company earned ₹ 60 lakhs. What is the percentage increase in the income at the end of the third year from their initial year?

- Ans**
- ☒ A. 100
 - ☒ B. 30
 - ☒ C. 50
 - ☒ D. 200

Q.43 Which of the statements is sufficient to answer the question?

Question:

Find the value of q .

Statements:

- 1) $x^2 + qx + 1 = 0$
- 2) The equation has solution as 1, 1

- Ans
- ☒ A. Only statement 1 is sufficient
 - ☒ B. Only statement 2 is sufficient
 - ☒ C. Either statement 1 or 2 is sufficient
 - ☒ D. Both statements 1 and 2 together are sufficient

Q.44 Select the option that is related to the third term in the same way as the second term is related to the first term.

Chemistry: Atoms :: Biology: _____?

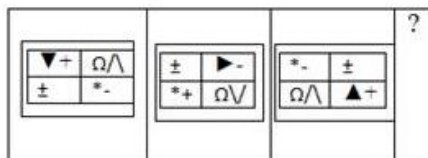
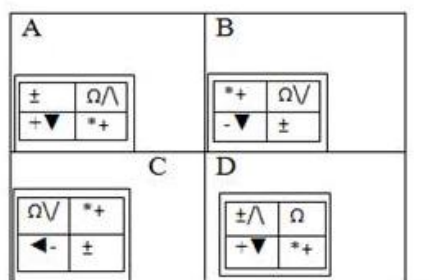
- Ans
- ☒ A. Biometrics
 - ☒ B. Molecules
 - ☒ C. Neurons
 - ☒ D. Cells

Q.45 Find the odd figure among the given options.

- Ans
- ☒ A. $\sin 90^\circ$
 - ☒ B. $\cos 0^\circ$
 - ☒ C. $\tan 45^\circ$
 - ☒ D. $\sec 30^\circ$

Q.46 Which of the option figure follows next in the series of Question figures?

Question figures:



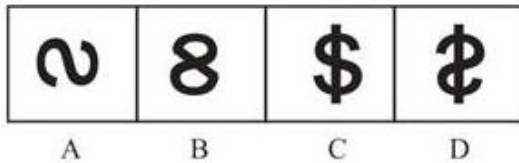
- Ans
- ☒ A. C
 - ☒ B. A
 - ☒ C. B
 - ☒ D. D

Q.47 Find the next figure in the given series.

Problem figures:



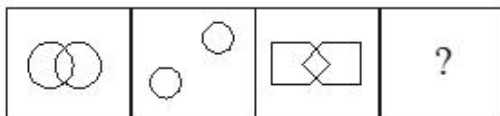
Answer figures:



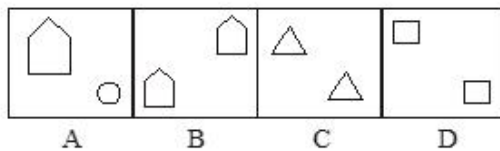
Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.48 Identify the figure that should follow next in the given series.

Problem figures:

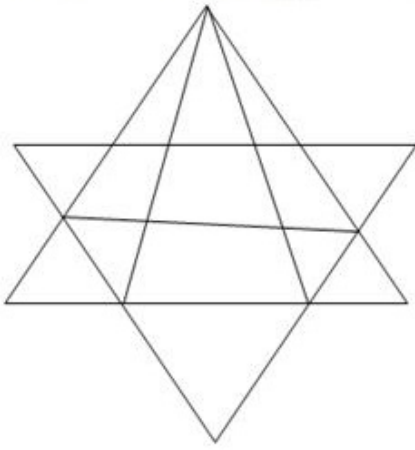


Answer figures:



Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

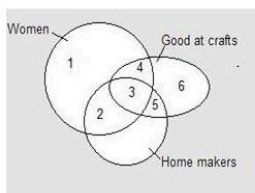
Q.49 Find the number of triangles in the given figure.



- Ans
- ☒ A. 18
 - ☒ B. 23
 - ☒ C. 31
 - all candidates.
 - ☒ D. 35

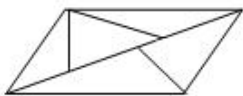
Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.50 The following Venn diagram shows women, home makers and those who are good at crafts. Find the total number of women who are good at crafts and who are not home makers.



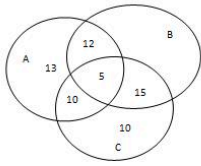
- Ans
- ☒ A. 1
 - ☒ B. 2
 - ☒ C. 6
 - ☒ D. 4

Q.51 How many triangles are there in the following figure?



- Ans
- ☒ A. 8
 - ☒ B. 7
 - ☒ C. 9
 - ☒ D. 6

- Q.52** The given Venn diagram represents the sports preferences of a group of 77 college students. There are three games: A - Badminton, B - Basketball and C - Tennis. How many students like to play Basketball but not Tennis?



- Ans**
- ☒ A. 17
 - ☒ B. 15
 - ☒ C. 24
 - ☒ D. 35

- Q.53** If southeast becomes north and northeast becomes west & so on then what does northwest become:

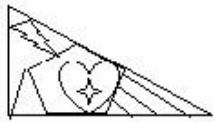
- Ans**
- ☒ A. North
 - ☒ B. South
 - ☒ C. Northwest
 - ☒ D. Southwest

- Q.54** Choose the correct water image of the following figure.

RAJ589D8

- Ans**
- ☒ A. BV1280D8
 - ☒ B. RV1280D8
 - ☒ C. BV1280D8
 - ☒ D. RV1280D8

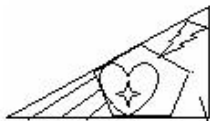
Q.55



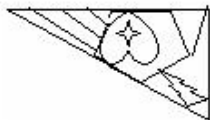
The mirror image of the above figure is:

Ans

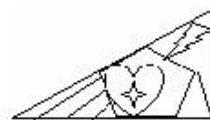
☒ A.



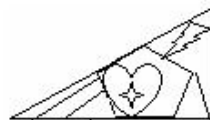
☒ B.



☒ C.



☒ D.



Section : General Science

Q.56 What happens to the force between two objects if the masses of both the objects are tripled?

Ans

☒ A. Force will get same time

☒ B. Force will get two time

☒ C. Force will get three time

☒ D. Force will get nine times

Q.57 A car is moving with a velocity of 72 km/h. It takes 4 s to stop it after the brakes are applied. If the mass of the car is 1000 kg, the magnitude of the force exerted by the brakes is:

Ans

☒ A. 2.0×10^2 N

☒ B. 3.0×10^2 N

☒ C. 4.0×10^3 N

☒ D. 5.0×10^3 N

Q.58 All forces have:

Ans

☒ A. Magnitude

☒ B. Direction

☒ C. Both Magnitude and Direction

☒ D. Density

Q.59 Magnitude of displacement from initial position to final position is the:

Ans ☒ A. curved lines

all candidates.

☒ B. circle

☒ C. total distance

☒ D. straight line

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.60 An object of mass 3 m is raised to a height h above ground level. Find the potential energy of the object.

Ans ☒ A. $\frac{1}{3} mgh$

☒ B. $3 mgh$

☒ C. $6 mgh$

☒ D. $9 mgh$

Q.61 Which of the following statements is true for the law of conservation of energy?

Ans ☒ A. Energy can only be created.

☒ B. Energy can only be destroyed.

☒ C. Energy is neither created nor destroyed.

☒ D. Energy is created as well as destroyed.

Q.62 Work has _____.

Ans ☒ A. only direction and no magnitude

☒ B. no direction and only magnitude

☒ C. both direction and magnitude

☒ D. no direction and no magnitude

Q.63 Which of the following is a use of ultrasonography?

Ans ☒ A. It is used to monitor the growth of a foetus inside the mother's womb.

☒ B. It is used to dissect organs.

☒ C. It is used to observe the advantages of medicines.

☒ D. It is used to read X-rays.

Q.64 A spherical mirror, whose reflecting surface is curved outwards, is called a:

Ans ☒ A. Simple mirror

☒ B. Convex mirror

☒ C. Concave mirror

☒ D. Plain mirror

Q.65 Crude oil is:

- Ans
- ☐ A. colourless
 - ☐ B. odourless
 - ☒ C. Smelly, yellow to black liquid
 - ☐ D. Odourless, yellow to black liquid

Q.66 In a _____ circuit, the electricity has only one path to flow through.

- Ans
- ☐ A. parallel
 - ☒ B. series
 - ☐ C. complete
 - ☐ D. incomplete

Q.67 The postulate that all atoms of an element are exactly alike was proved wrong with the discovery of _____.

- Ans
- ☐ A. radioactivity
 - ☐ B. allotropy
 - ☒ C. isotopes
 - ☐ D. isobars

Q.68 What is the counting unit for a chemist?

- Ans
- ☐ A. Molecule
 - ☐ B. Anode
 - ☐ C. Anion
 - ☒ D. Mole

Q.69 Which of these is not homoatomic molecules?

- Ans
- ☐ A. N_2
 - ☐ B. H_2
 - ☐ C. P_4
 - ☒ D. CO_2

Q.70 When crystals are heated, water of crystallisation is lost and the substance turns into a/an _____ form.

- Ans
- ☒ A. anhydrous
 - ☐ B. crystalline
 - ☐ C. vapour
 - ☐ D. gaseous

Q.71 What happens to an acid or a base in a water solution?

- Ans
- ☐ A. Bases give H_3O^+ in water.
 - ☐ B. Acids give OH^- in water.
 - ☐ C. Bases give H^+ in water.
 - ☒ D. Bases give OH^- in water.

Q.72 Which of the following non-metals catches fire if it is exposed to air?

- Ans
- ☒ A. Nitrogen
 - ☒ B. Phosphorus
 - ☒ C. Sulphur
 - ☒ D. Uranium

Q.73 Chose the INCORRECT one for Aldehydes.

- Ans
- ☒ A. $\text{CHCOH} \rightarrow \text{methanal} \rightarrow \text{formaldehyde}$
 - ☒ B. $\text{CH}_3\text{COH} \rightarrow \text{ethanal} \rightarrow \text{acetaldehyde}$
 - ☒ C. $\text{C}_2\text{H}_5\text{COH} \rightarrow \text{propanal} \rightarrow \text{propaldehyde}$
 - ☒ D. $\text{C}_3\text{H}_7\text{COH} \rightarrow \text{butanal} \rightarrow \text{butyraldehyde}$

Q.74 Which one of the following is NOT a noble gas?

- Ans
- ☒ A. Helium
 - ☒ B. Krypton
 - ☒ C. Chlorine
 - ☒ D. Radon

Q.75 Oxidation state of an atom represents:

- Ans
- ☒ A. apparent charge in compound
 - ☒ B. number of electrons lost
 - ☒ C. number of electrons gained
 - ☒ D. its vacancies

Q.76 A group of cells similar in origin and structure and specialized to perform a particular function (eg, muscle cells in our body forms the muscles that brings about body movements) is called:

- Ans
- ☒ A. Tissue
 - ☒ B. Muscle
 - ☒ C. Phloem
 - ☒ D. Fibres(bast)

Q.77 _____ is present in the lining of kidney tubules.

- Ans
- ☒ A. Squamous Epithelium
 - ☒ B. Cuboidal Epithelium
 - ☒ C. Columnar Epithelium
 - ☒ D. Parenchyma

Q.78 _____ is not essential for photosynthesis.

- Ans
- ☒ A. CO_2
 - ☒ B. O_2
 - ☒ C. Sunlight
 - ☒ D. Chlorophyll

Q.79 _____ carries sperms out of the testes.

- Ans
- ☐ A. Ureters
 - ☐ B. Urethra
 - ☒ C. Vas deferens
 - ☐ D. Oviduct

Q.80 The cavity of graafian follicle is called:

- Ans
- ☐ A. amniotic cavity
 - ☒ B. antrum
 - ☐ C. liquor folliculi
 - ☐ D. discus proligerous

Section : General Awareness and Current Affairs

Q.81 India celebrates 29th August as the National Sports Day in honour of _____.

- Ans
- ☒ A. Major Dhyan Chand
 - ☐ B. J. Srinath
 - ☐ C. P.T. Usha
 - ☐ D. Milkha Singh

Q.82 With which sport Kidambi Srikanth a well-known personality is associated?

- Ans
- ☐ A. Tennis
 - ☒ B. Badminton
 - ☐ C. Shooting
 - ☐ D. Golf

Q.83 What is the total number of players in a football team?

- Ans
- ☐ A. 14
 - ☐ B. 12
 - ☒ C. 11
 - ☐ D. 10

Q.84 Who won the 60th Grammy Award (2017) in the category of Best New Artist?

- Ans
- ☒ A. Alessia Cara
 - ☐ B. Meghan Trainor
 - ☐ C. Julia Michaels
 - ☐ D. James Corden

Q.85 Who among the following was the recipient of the Tata Literature Live! 'Lifetime Achievement' Award for 2017?

- Ans
- ☐ A. Anil Dharker
 - ☐ B. Amitav Ghosh
 - ☒ C. Girish Karnad
 - ☐ D. Kiran Nagarkar

Q.86 Who is the author of the book 'Recasting India: How Entrepreneurship is Changing the World's Largest Democracy'?

- Ans**
- ☐ A. Durjoy Dutta
 - ☒ B. Hindol Sengupta
 - ☐ C. Sashi Taroor
 - ☐ D. Anita Desai

Q.87 Where was the 105th National Science Congress held in March 2018?

- Ans**
- ☐ A. Goa
 - ☒ B. Manipur
 - ☐ C. Delhi
 - ☐ D. Assam

Q.88 Which is the highest decoration of valour award for the most conspicuous act of bravery or self-sacrifice in the presence of the enemy, whether on land, at sea or in the air?

- Ans**
- ☐ A. Dhyanchand Award
 - ☐ B. Padma Shri
 - ☒ C. Param Vir Chakra
 - ☐ D. Bharat Ratna

Q.89 Who built India's cheapest passenger car amongst other achievements?

- Ans**
- ☐ A. Dorabji Tata
 - ☐ B. Jamsetji Tata
 - ☒ C. Ratan Tata
 - ☐ D. Naval Tata

Q.90 The headquarters of NITI Aayog is located in which city?

- Ans**
- ☐ A. Chennai
 - ☒ B. New Delhi
 - ☐ C. Bengaluru
 - ☐ D. Jaipur

Q.91 Name the Indian state that is pioneering in driving a state-led business incubator for women entrepreneurs.

- Ans**
- ☐ A. Maharashtra
 - ☒ B. Telangana
 - ☐ C. Rajasthan
 - ☐ D. Odisha

Q.92 The _____ commission was appointed to examine the centre-state relations in India in 1983.

- Ans**
- ☐ A. Punchhi
 - ☐ B. Dhar
 - ☐ C. Shri Krishna
 - ☒ D. Sarkaria

Q.93 Chabahar port which is being constructed by India, is located in which country?

- Ans ☐ A. Bangladesh
☒ B. Iran
☐ C. Iraq
☐ D. Thailand

Q.94 Ellora temples were built by the _____.

- Ans ☐ A. Pandyas
☐ B. Cholas
☒ C. Rashtrakutas
☐ D. Cheras

Q.95 The Marathas lost power to Ahmad Shah Abdali in _____.

- Ans ☐ A. 1763
☐ B. 1764
☒ C. 1761
☐ D. 1762

Q.96 Saffron is a product of _____.

- Ans ☒ A. Jammu and Kashmir
☐ B. Arunachal Pradesh
☐ C. West Bengal
☐ D. Goa

Q.97 The Basilica of Bom Jesus is situated in _____.

- Ans ☐ A. Mumbai
☒ B. Goa
☐ C. Fort Kochi
☐ D. Bangalore

Q.98 Which of the following is a direct tax?

- Ans ☐ A. Sales tax
☒ B. Income tax
☐ C. Customs duty
☐ D. Excise duty

Q.99 Which railway became the 1st Rail Zone with 100% LED Lighting at Stations?

- Ans ☐ A. South Eastern Railway
☐ B. Central Railway
☒ C. South Central Railway
☐ D. Western Railway

Q.100 Which Indian bank has tied up with Bajaj Electricals for vendor financing using blockchain solutions?

- Ans**
- ☐ A. Dena Bank
 - ☒ B. Yes Bank
 - ☐ C. HDFC Bank
 - ☐ D. ICICI Bank



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	04/12/2018
Test Time	9:00 AM - 10:30 AM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 $\frac{3}{4}$, when multiplied by another number, gives $\frac{5}{8}$. That number is:

- Ans
- ☐ A. $\frac{32}{15}$
 - ☐ B. $\frac{5}{12}$
 - ☒ C. $\frac{5}{6}$
 - ☐ D. $\frac{15}{32}$

Q.2 The HCF of 117 & 195 is:

- Ans
- ☐ A. 3
 - ☐ B. 13
 - ☒ C. 39
 - ☐ D. 65

Q.3 $64 \div 4^2 \times 2 + 2 =$

- Ans
- ☐ A. 4
 - ☒ B. 10
 - ☐ C. 1
 - ☐ D. 8

Q.4 Rashi can cycle @ 12 km an hour and walk @ 4 km an hour. To cover a distance of 66 km, she takes 8.5 hours. How many kilometres did she cover on foot?

- Ans
- ☐ A. 24 km
 - ☐ B. 36 km
 - ☐ C. 30 km
 - ☒ D. 18 km

Q.5 The LCM of 86 & 129 is:

- Ans
- ☒ A. 172
 - ☒ B. 258
 - ☒ C. 344
 - ☒ D. 516

Q.6 Which of the following numbers is prime?

- Ans
- ☒ A. 133
 - ☒ B. 143
 - ☒ C. 153
 - ☒ D. 163

Q.7 $\frac{5}{9}$, when multiplied by another number gives $\frac{10}{3}$. What is the other number?

- Ans
- ☒ A. $\frac{27}{2}$
 - ☒ B. 6
 - ☒ C. 3
 - ☒ D. $\frac{8}{3}$

Q.8 When you reverse the digits of the number 14, the number increases by 27. How many other two-digit numbers increase by 27 when their digits are reversed?

- Ans
- ☒ A. 5
 - ☒ B. 6
 - ☒ C. 8
 - ☒ D. 9

Q.9 ₹ 231 is divided in the ratio 7 : 4. The smaller share is equal to _____.

- Ans
- ☒ A. ₹147
 - ☒ B. ₹ 84
 - ☒ C. ₹ 66
 - ☒ D. ₹ 132

Q.10 33 out of 60 is ____%.

- Ans
- ☒ A. 60
 - ☒ B. 58
 - ☒ C. 55
 - ☒ D. 52

Q.11 The ratio of boys to girls in a school is 9 : 11. If 50 boys are admitted and 50 girls leave the school, the ratio becomes 13 : 15. The original number of girls in the school is:

- Ans
- ☒ A. 1925
 - ☒ B. 1650
 - ☒ C. 1575
 - ☒ D. 1850

Q.12 A sum of money invested at 15% simple interest p.a. for 3 years yields the same interest as another sum invested at 12% simple interest p.a. for 5 years. What is the ratio of the two sums invested?

- Ans**
- ☒ A. 5 : 3
 - ☒ B. 4 : 3
 - ☒ C. 5 : 4
 - ☒ D. 6 : 5

Q.13 After meeting with an accident, a train starts moving at $\frac{2}{3}$ its speed. Due to this, it is 45 minutes late. Find the original time of the journey beyond the point of the accident.

- Ans**
- ☒ A. 90 minutes
 - ☒ B. 45 minutes
 - ☒ C. 135 minutes
 - ☒ D. 120 minutes

Q.14 In a computer game a builder can build a wall in 10 hours while a destroyer can demolish such a wall completely in 25 hours. Both the builder and the destroyer were initially set to work together on level ground. But after 15 hours the destroyer was taken out. What was the total time taken to build the wall?

- Ans**
- ☒ A. 16 hours 20 mins
 - ☒ B. 16 hours
 - ☒ C. 18 hours 24 mins
 - ☒ D. 17 hours 2 mins

Q.15 A person driving at a speed of 48 km/h reaches office 1.5 minutes early while she reaches 4.5 minutes late if driving at 36 km/h. What is the distance (in km) that she is covering?

- Ans**
- ☒ A. 15.6
 - ☒ B. 14.4
 - ☒ C. 15.4
 - ☒ D. 14.6

Q.16 Two inlet pipes A and B can fill an empty cistern in 22 and 33 hours, respectively. They are switched on together but pipe B had to be closed 7 hours before the cistern was full. How many hours in all did it take the two pipes to fill the cistern?

- Ans**
- ☒ A. 16
 - ☒ B. 15
 - ☒ C. 16.2
 - ☒ D. 14.2

Q.17 A clock is set at 5.00 am in the morning. How many degrees would the hour hand have cumulatively covered, when the time is 10 am?

- Ans**
- ☒ A. 90°
 - ☒ B. 110°
 - ☒ C. 120°
 - ☒ D. 150°

Q.18 A man is 6 times as old as his son now. In 6 years' time, their ages will be in the ratio of 7 : 2. Find the current age of his son.

- Ans**
- ☒ A. 5 years
 - ☒ B. 6 years
 - ☒ C. 8 years
 - ☒ D. 10 years

Q.19 The larger of the two angles made by the hour hand and the minute hand of a clock at 7 : 29 : 30 hours is:

- Ans**
- ☒ A. 313.25°
 - ☒ B. 311.25°
 - ☒ C. 312.25°
 - ☒ D. 314.25°

Q.20 The length, breadth and height of a room are in the ratio 8 : 7 : 5. If the length halves, the breadth doubles and the height halves, by what percentage would the cost of painting the four walls of the room reduce?

- Ans**
- ☒ A. 32.5
 - ☒ B. 35
 - ☒ C. 37.5
 - ☒ D. 40

Q.21 Two sides of a quadrilateral are 64 cm and 48 cm in length and the angle between them is 90° . The other two sides are 50 cm each. The other three angles of the quadrilateral are not right angles. What is the area of the quadrilateral?

- Ans**
- ☒ A. $2,736 \text{ cm}^2$
 - ☒ B. $2,516 \text{ cm}^2$
 - ☒ C. $2,836 \text{ cm}^2$
 - ☒ D. $2,916 \text{ cm}^2$

Q.22 $\tan \theta = \alpha \Rightarrow \tan^{-1} \alpha = \theta$ and $\cot \phi = \beta \Rightarrow \cot^{-1} \beta = \phi$. Then the value of $\tan^{-1} \gamma + \cot^{-1} \gamma$ is:

- Ans**
- ☒ A. 30°
 - ☒ B. 45°
 - ☒ C. 60°
 - ☒ D. 90°

Q.23 One-fourth of a certain number exceeds one-fifth of its succeeding number by 3. Find the original number.

- Ans**
- ☒ A. 44
 - ☒ B. 54
 - ☒ C. 59
 - ☒ D. 64

Q.24 Five students, Pankaj, Qadar, Ram, Seema and Tarun, appeared for an examination and scored marks as follows:

Average of marks scored by Pankaj, Qadar and Ram is 70.
Average of marks scored by Pankaj, Qadar, Ram and Seema is 70.
Average of marks scored by Qadar, Ram, Seema and Tarun is 85.
Tarun scored 30 marks more than Seema.

How many marks did Pankaj score in the examination?

- Ans**
- ☒ A. 80 marks
 - ☒ B. 40 marks
 - ☒ C. 90 marks
 - ☒ D. 70 marks

Q.25 Given that $A = \tan 30^\circ$ and $B = \frac{\tan 60^\circ - \tan 30^\circ}{1 + \tan 60^\circ \tan 30^\circ}$ which of the relations stated below is true?

- Ans**
- ✓ **A.** $A = B$
 - ✗ **B.** $A > B$
 - ✗ **C.** $A < B$
 - ✗ **D.** $A + B = 1$

Section : General Intelligence and Reasoning

Q.26 T is the grand-daughter of H, and H is the mother of N. Who is H to T?

- Ans**
- ✗ **A.** Grand-father
 - ✓ **B.** Grand-mother
 - ✗ **C.** Mother
 - ✗ **D.** Sister

Q.27 'Water' is related to 'Well' in the same way 'Dolphin' is related to: _____.

- Ans**
- ✗ **A.** 'Picture'
 - ✗ **B.** 'Vessel'
 - ✓ **C.** 'Sea'
 - ✗ **D.** 'Land'

Q.28 Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statement:

- All comedians are heroes.
- All heroes are artists.

Conclusions

1. All comedians are artists.
2. Some heroes are comedians.

- Ans**
- ✗ **A.** Only conclusion 1 follows
 - ✗ **B.** Only conclusion 2 follows
 - ✗ **C.** Neither conclusion 1 nor 2 follows
 - ✓ **D.** Both conclusions 1 and 2 follows

Q.29 Rajesh has a sister Kiran. Rajesh is son of Chandan who is son of Ramesh. How Kiran is related to Ramesh?

- Ans**
- ✗ **A.** Sister
 - ✗ **B.** Daughter
 - ✓ **C.** Granddaughter
 - ✗ **D.** Mother

Q.30 Read the given statement followed by two arguments labelled I and II and decide which of the given arguments is/are strong with respect to the statement.

Statement:

Should educational institutes allow their students to join student unions that are sponsored by political parties?

Arguments:

1. No. The decision will politicise the educational environment of their institute.
2. Yes. The decision will help students nurture their talent and develop into future political leaders.

- Ans**
- ☒ A. Only argument 1 is strong.
 - ☒ B. Only argument 2 is strong.
 - ☒ C. Either argument 1 or 2 is strong.
 - ☒ D. Both arguments 1 and 2 are strong.

Q.31 Read the given statements and conclusions carefully and select which of the conclusions logically follow(s) from the statements.

Statement:

1. All the cherries are berries.
2. Some apples are berries.

Conclusions:

1. All cherries are apples.
2. Some apples are cherries.

- Ans**
- ☒ A. Only (1) follows
 - ☒ B. Only (2) follows
 - ☒ C. Either (1) or (2) follows
 - ☒ D. Neither (1) nor (2) follows

Q.33 Read the given statement and the following conclusions carefully and select which of the conclusions logically follow(s) from the statement.

Statement:

"My children love swimming", said Perna to her friend.

Conclusions:

- I. Perna has children.
- II. She takes them for swimming.

- Ans**
- ☒ A. Conclusion I alone follows.
 - ☒ B. Conclusion II alone follows.
 - ☒ C. Both the conclusions follow.
 - ☒ D. Neither conclusion I nor II follows.

Q.34 A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement.

Statement:

Should the government shut down all government organisations to arrest the misuse of funds?

Arguments:

- I) Yes, public funds will be saved by shutting down government organisations.
- II) No, services from the government organisation cannot be handed over to the private institutions.

- Ans**
- ☒ A. Only I is strong
 - ☒ B. Only II is strong
 - ☒ C. Neither I nor II is strong
 - ☒ D. Either I or II is strong

Q.36 Find the next number in the series.

18, 23, 33, 48, 68, ?

- Ans**
- ☒ A. 100
 - ☒ B. 95
 - ☒ C. 97
 - ☒ D. 93

Q.37 Insert mathematical symbols in the place of the question marks (?) to get the result.

$((120?150)?5)?10 = -0.6$

- Ans**
- ☒ A. +, ×, ×
 - ☒ B. −, +, ÷
 - ☒ C. −, ×, ÷
 - ☒ D. +, ÷, ÷

Q.38 Find the next term in the following series.

A1C3, E5G7, I9K11, _____

- Ans**
- ☒ A. M13O15
 - ☒ B. M13O16
 - ☒ C. M12O15
 - ☒ D. M12O14

Q.39 Choose the missing terms from the options.

P5QR, P4QS, _____, _____, P1QV

- Ans**
- ☒ A. P2QW, P3QT
 - ☒ B. PQV2, P4QT
 - ☒ C. P3QT, P2QU
 - ☒ D. PQ3U, P4QW

Q.40 Read the given question and decide which of the following statements is/are sufficient to answer the question.

Question:

K, J, M and B are standing in a circular format. Who is standing to the right of K?

Statements:

1. To the left of M is J, and to the left of J is B.
2. K is the tallest of all.

- Ans**
- ☒ A. Statement 1 alone is sufficient.
 - ☒ B. Statements 1 and 2 together are sufficient.
 - ☒ C. Statement 2 alone is sufficient.
 - ☒ D. Statements 1 and 2 together are insufficient.

Q.41 You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

Question:

What is the code for "T"?

Statements:

1. In a code language "I am here" is written as "N em ida".
2. "I like icecream" is written as "N el crema".

Ans  **A.** Statement 1 and 2 together are sufficient.

 **B.** Statement 1 alone is sufficient.

 **C.** Statement 2 alone is sufficient.

 **D.** Either 1 or 2 are not sufficient.

Q.42 Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

How is Bhavna related to Satish?

Statements:

- I) Bhavna's mother is Rajyam.
- II) Rajyam's son is Satish.

Ans  **A.** Only statement I is sufficient while statement II is not

 **B.** Only statement II is sufficient while statement I is not

 **C.** Neither statement I nor II is sufficient

 **D.** Both statements I and II are sufficient

Q.43 Consider the following question and decide which of the statements is sufficient to answer the question.

Question

Find the value of n.

Statements:

- 1) $x^2 - 2nx + 81 = 0$
- 2) The equation has the solution as '9'

Ans  **A.** Only statement 1 is sufficient

 **B.** Only statement 2 is sufficient

 **C.** Both statement 1 and 2 are sufficient

 **D.** Neither statement 1 nor 2 is sufficient

Q.44 Nip is related to Crush in the same way as Cold is related to:

Ans  **A.** Hot

 **B.** Small

 **C.** Chilled

 **D.** Peak

Q.45 Find the next figure for the given series:

Problem figures:

B/4	D/16	F/36	?
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Answer figures:

C/9	H/64	H/36	J/81
-----	------	------	------

A

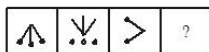
B

C

D

- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

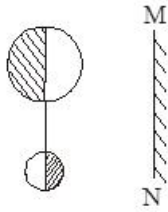
Q.46 Find the figure that is related to the third figure in the same way as the second figure is related to the first figure.



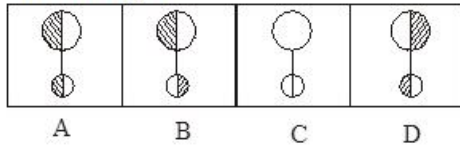
Ans

- ☒ A.
- ☒ B.
- ☒ C.
- ☒ D.

Q.47 Find the mirror image of the given figure if the mirror is placed at line MN.

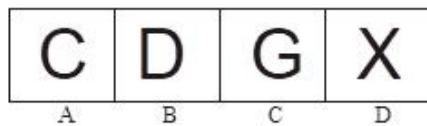


Answer figures:



Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.48 Find the odd one out from among the given figures.

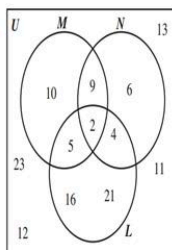


Ans ☒ A. A
☒ B. B
☒ C. C
☒ D. D

Q.49 Six kids are sleeping next to each other. Dhruv is sleeping on the left of Swayam. Shlok is sleeping on the right of Advait, one kid away from Tanmay. Neither Ved nor Swayam are sleeping at the extreme ends. Who is at the extreme right?

Ans ☒ A. Ved
☒ B. Shlok
☒ C. Dhruv
☒ D. Tanmay

Q.50



Study the given diagram carefully. Set U is the universal set and Set L, M and N represent students studying History, Geography and Language, respectively.

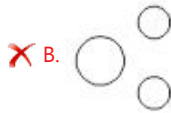
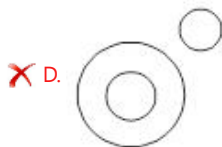
The total number of students NOT studying any subject is:

Ans ☒ A. 58
☒ B. 59
☒ C. 60
☒ D. 61

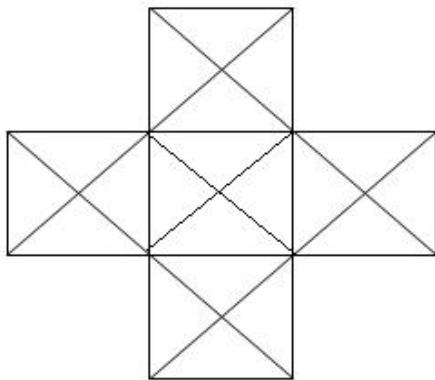
Q.51 Choose the Venn diagram which best represents the following classes:

Fruits, Kiwi, Apple.

Ans



Q.52 How many triangles are present in the below figure?



Ans

☒ A. 42

☒ B. 52

☒ C. 32

☒ D. 30

Q.53 Mamata was running towards East direction. Her friend was running in opposite direction. In which direction her friend was running?

Ans

☒ A. East

☒ B. West

☒ C. North

☒ D. South

Q.54 Two friends enter a restaurant. They were given a table just adjacent to the entrance with two seats. They sit opposite to each other. One of the friends is seated at 90 degrees from the entrance. If while entering they faced East, in which direction are they sitting with respect to entrance?

Ans

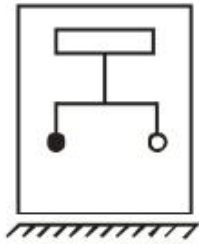
☒ A. South-East

☒ B. East -West

☒ C. South-West

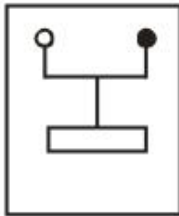
☒ D. North-West

Q.55 Choose the mirror image for the following figure:

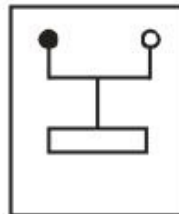


Ans

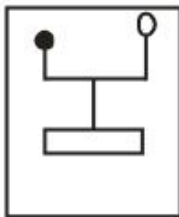
☒ A.



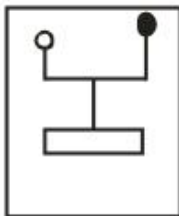
☒ B.



☒ C.



☒ D.



Section : General Science

Q.56 An object travels 15 m in 8 s and then another 25 m in 12 s. What is the average speed of the object?

Ans

☒ A. 4 ms^1

☒ B. 4 ms^{-1}

☒ C. 2 ms^{-1}

☒ D. 2 ms^1

Q.57 Find the odd one out.

Ans

☒ A. Negative acceleration

☒ B. Deceleration

☒ C. Positive acceleration

☒ D. Retardation

Q.58 _____ is the change in velocity per unit time.

- Ans
- ☐ A. Momentum
 - ☒ B. Acceleration
 - ☐ C. Inertia
 - ☐ D. Force

Q.59 A passenger falls in the forward direction when a moving bus applies brakes to stop and falls backwards when it accelerates from rest. This is because of _____.

- Ans
- ☐ A. momentum
 - ☐ B. force
 - ☐ C. displacement
 - ☒ D. inertia

Q.60 A certain household has consumed 245 units of energy during a month. How much energy is this in joules?

- Ans
- ☐ A. 882×10^8 joules
 - ☐ B. 245×10^6 joules
 - ☒ C. 882×10^6 joules
 - ☐ D. 918×10^{-8} joules

Q.61 Which one of the following has only magnitude and no direction?

- Ans
- ☐ A. Force
 - ☐ B. Momentum
 - ☐ C. Velocity
 - ☒ D. Work

Q.62 5.4 kwh = ?

- Ans
- ☐ A. 14.0×10^6 J
 - ☐ B. 14.4×10^6 J
 - ☐ C. 19.44×10^5 J
 - ☒ D. 14.4×10^8 J

all candidates.

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.63 The line that joins the centre of curvature and the pole of a curved surface is called:

- Ans
- ☐ A. focal point
 - ☐ B. focus
 - ☒ C. principal axis
 - ☐ D. radius of curvature

Q.64 A source produces 10 crests and 10 troughs in 0.1 second. What is the frequency of the wave produced?

- Ans
- ☐ A. 108 Hz
 - ☐ B. 120 Hz
 - ☒ C. 100 Hz
 - ☐ D. 150 Hz

Q.65 Select the odd material out of the following.

- Ans ☒ A. Rubber
☒ B. Diamond
all candidates.
☒ C. Glass
☒ D. Aluminium

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.66 It is the product of power and time; its unit is W-s and KWH. What is it called?

- Ans ☒ A. Potential energy
☒ B. Power
☒ C. Electrical energy
☒ D. Electric conductivity

Q.67 The chemical formula of Plaster of Paris is:

- Ans ☒ A. $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
☒ B. $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
☒ C. $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
☒ D. $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$

Q.68 Which elements combine to form Ammonia?

- Ans ☒ A. Hydrogen, Oxygen and Nitrogen
☒ B. Hydrogen and Nitrogen
☒ C. Hydrogen and Oxygen
☒ D. Hydrogen, Chlorine and Nitrogen

Q.69 The molecular mass of nitrogen is 28. Its atomic mass is 14. The atomicity of nitrogen is _____.

- Ans ☒ A. 28
☒ B. 14
☒ C. 2
☒ D. 1

Q.70 Lemon juice has a pH of.

- Ans ☒ A. 2
☒ B. 6
☒ C. 8
☒ D. 12

Q.71 Which one of the below is not a property of acids?

- Ans ☒ A. Their presence turns turn blue litmus red
☒ B. They act as electrolyte in solution
☒ C. They corrode metal surfaces slowly
☒ D. Their presence turns red litmus blue

Q.72 A crucible used in laboratories to heat solids at a high temperature is made of:

- Ans ☒ A. Copper
☒ B. Silicon
☒ C. Graphite
☒ D. Aluminium

Q.73 Which of the following is NOT TRUE about non-metals?

- Ans ☒ A. Solid non-metals are soft and dull.
all candidates.
☒ B. Non-metals are sonorous.
☒ C. They are poor conductors of heat and electricity.
☒ D. They are not malleable and ductile.

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.74 Which of these is NOT an alkaline earth metal?

- Ans ☒ A. Beryllium
☒ B. Magnesium
☒ C. Calcium
☒ D. Potassium

Q.75 Name the Group and Period of Modern Periodic Table in which Carbon is placed?

- Ans ☒ A. Third period and thirteenth group
☒ B. Seventh period and fourteenth group
☒ C. Second period and fourteenth group
☒ D. Fifth period and Fifteenth group

Q.76 Human insulin is being commercially produced from a transgenic species of:

- Ans ☒ A. *Escherichia*
☒ B. *Saccharomyces*
☒ C. *Rhizobium*
☒ D. *Mycobacterium*

Q.77 The function of nervous tissues is to conduct messages:

- Ans ☒ A. in half part of the body
☒ B. throughout the body
☒ C. in the lower part of the body
☒ D. in the upper part of the body

Q.78 Involuntary actions including blood pressure, salivation and vomiting are controlled by the _____.

- Ans ☒ A. Spinal cord
☒ B. Cerebellum
☒ C. Medulla
☒ D. Pons

Q.79 Which of the following plants belongs to the category of Pteridophyta?

- Ans**
- ☐ A. Ulothrix
 - ☐ B. Cladophora
 - ☒ C. Marsilea
 - ☐ D. Chara

Q.80 Which of the following hormones is secreted by the pituitary to start the ovulation process?

- Ans**
- ☐ A. Thyroid
 - ☒ B. Luteinising hormone
 - ☐ C. Oestrogen
 - ☐ D. Progesterone

Section : General Awareness and Current Affairs

Q.81 How many medals did India win at Strandja Memorial Boxing Tournament?

- Ans**
- ☐ A. 10
 - ☐ B. 12
 - ☐ C. 15
 - ☒ D. 11

Q.82 R. Pragnanandhaa recently became the youngest Grandmaster of India in which game/sport?

- Ans**
- ☐ A. Table tennis
 - ☐ B. Judo
 - ☒ C. Chess
 - ☐ D. Volley ball

Q.83 With which of the following game/sport 'Salt lake World Cup' is associated?

- Ans**
- ☒ A. Archery
 - ☐ B. Shooting
 - ☐ C. Swimming
 - ☐ D. Boxing

Q.84 The prestigious Arjuna awards were instituted by the government of India in which year?

- Ans**
- ☐ A. 1991
 - ☐ B. 1981
 - ☐ C. 1971
 - ☒ D. 1961

Q.85 Who received the Padma Shri in 2017 for his contribution to Limboo language and literature?

- Ans**
- ☐ A. Til Bikram Nembang
 - ☐ B. Upendra Subba
 - ☐ C. Balkrishna Mabuhang
 - ☒ D. Birkha Bahadur Muringla

- Q.86** Which of the following paintings are famous in Bihar?
- Ans** ☒ A. Madhubani
☐ B. Bani-thani
☐ C. Tamasha
☐ D. Kalamkari
- Q.87** Who has won the Lifetime achievement award in Political and Public life awards at U.K, 2018?
- Ans** ☐ A. Rajnath Singh
☐ B. Arun Jaitley
☒ C. Satrugan Sinha
☐ D. Yashwanth Sinha
- Q.88** Who is the first woman in the world to have swam across sea channels of five continents?
- Ans** ☐ A. Nafisa Ali
☐ B. Damini Gowda
☒ C. Bula Choudhury
☐ D. Vaania Kapoor Achuthan
- Q.89** Which Indian state has won the 'Geospatial World Excellence Award-2018' for successful IT application?
- Ans** ☐ A. Jharkhand
☐ B. Chhattisgarh
☒ C. Odisha
☐ D. Andhra Pradesh
- Q.90** Who among the following was the Foreign Secretary of India in 2017?
- Ans** ☐ A. Ashok Khemka
☐ B. S Dasgupta
☐ C. Pavan Varma
☒ D. S Jaishankar
- Q.91** M Natarajan, a prominent personality in Tamil Nadu politics, passed away very recently. He is:
- Ans** ☐ A. Jayalalitha's brother
☐ B. Jayalalitha's nephew
☐ C. Sasikala's brother
☒ D. Sasikala's husband
- Q.92** BJP's five-time MLA Jai Ram Thakur was sworn in as the 14th Chief Minister of ____.
- Ans** ☐ A. Haryana
☐ B. Arunachal Pradesh
☐ C. Uttar Pradesh
☒ D. Himachal Pradesh

Q.93 For which state has the Seema Darshan project been approved?

Ans ☒ A. Gujarat

☐ B. West Bengal

☐ C. Jammu & Kashmir

☐ D. Kerala

Q.94 _____ was born in a grove known as Lumbini, near the city of Kapilavastu.

Ans ☐ A. Bimbisara

☐ B. Ashoka

☐ C. Mahavira

☒ D. Gautama Buddha

Q.95 Edwin Lutyen's designed a part of Delhi between 1912 to _____.

Ans ☒ A. 1931

☐ B. 1923

☐ C. 1901

☐ D. 1910

Q.96 The _____ passes through the middle of India.

Ans ☐ A. Arctic Circle

☐ B. Equator

☐ C. Tropic of Capricorn

☒ D. Tropic of Cancer

Q.97 _____ is a coastal state on the west of India.

Ans ☒ A. Goa

☐ B. Rajasthan

☐ C. Tamil Nadu

☐ D. West Bengal

Q.98 With reference to Indian economy, what is the full form of FDI?

Ans ☐ A. Foreign Direct Intelligence

☐ B. Foreign Domestic Investment

☐ C. Foreign Domestic Intelligence

☒ D. Foreign Direct Investment

Q.99 Which state of India is the leading producer of tea?

Ans ☐ A. West Bengal

☐ B. Gujarat

☒ C. Assam

☐ D. Sikkim

Q.100 _____, Bangladesh and _____ have signed tripartite memorandum of understanding (MoU) for cooperation in construction of Rooppur nuclear power plant near Dhaka, Bangladesh.

Ans

- ✓ **A. India, Russia**
- ✗ **B. India, Germany**
- ✗ **C. India, Japan**
- ✗ **D. India, Nepal**



RAILWAY RECRUITMENT BOARDS

रेलवे भर्ती बोर्ड

Test Date	10/12/2018
Test Time	9:00 AM - 10:30 AM
Subject	Level 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : Mathematics

Q.1 $\frac{5}{12}$ of a number is $\frac{3}{4}$. What is the number?

- Ans
- ✓ A. $1\frac{4}{5}$
 - ✗ B. $3\frac{1}{5}$
 - ✗ C. $1\frac{5}{16}$
 - ✗ D. $1\frac{7}{15}$

Q.2 The HCF of 117 and another number is 13. The other number CANNOT be:

- Ans
- ✗ A. 130
 - ✗ B. 143
 - ✓ C. 156
 - ✗ D. 169

Q.3 What is the square root of 16129?

- Ans
- ✗ A. 117
 - ✗ B. 143
 - ✗ C. 137
 - ✓ D. 127

Q.4 $5.4 \times 0.0015 = \underline{\hspace{1cm}} ?$

- Ans
- ✗ A. 0.81
 - ✗ B. 0.081
 - ✓ C. 0.0081
 - ✗ D. 0.00081

Q.5 $3\sqrt{147} - \frac{7}{3}\sqrt{\frac{1}{3}} + 7\sqrt{\frac{1}{3}} = ?$

- Ans ☒ A. $\frac{203}{9}\sqrt{3}$
☐ B. $\frac{200}{9}\sqrt{3}$
☐ C. $\frac{403}{9}\sqrt{3}$
☐ D. $\frac{400}{9}\sqrt{3}$

Q.6 Which of the following numbers is divisible by 6?

- Ans ☐ A. 12340
☐ B. 12344
☐ C. 12346
☒ D. 12348

Q.7 Which of the numbers given below is divisible by 3?

- Ans ☐ A. 1111
☒ B. 1311
☐ C. 1411
☐ D. 1711

Q.8 $276x1$ is divisible by 3. What is the sum of the possible values of x?

- Ans ☐ A. 21
☐ B. 18
☒ C. 15
☐ D. 12

Q.9 If $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a + b\sqrt{3}$; then $a^2 + b^2 = ?$

- Ans ☒ A. 5
☐ B. 6
☐ C. 7
☐ D. $\sqrt{8}$

Q.10 Ramesh had 50 paise coins, ₹ 1 coins and ₹ 5 coins in the ratio of 2 : 3 : 5. The total amount of money with Ramesh is ₹ 116. What is the number of 50 paise coins with him?

- Ans ☐ A. 4
☒ B. 8
☐ C. 6
☐ D. 12

Q.11 A sum of money was divided between Shivani and Pranita in the ratio 5 : 7. If Pranita gave ₹ 5 to Shivani, the ratio would change to 3 : 4. What is the sum of money that got divided?

- Ans**
- ☐ A. ₹ 432
 - ☐ B. ₹ 408
 - ☐ C. ₹ 396
 - ☒ D. ₹ 420

Q.12 The ratio between two numbers is 19 : 26. If 2 is added to the smaller number, the ratio changes to 3 : 4. What is the larger number?

- Ans**
- ☒ A. 104
 - ☐ B. 91
 - ☐ C. 130
 - ☐ D. 78

Q.13 Raksha can complete a piece of work in 27 days while Esther takes 45 days to complete the work. They start working together, but Raksha leaves 9 days before the work gets over. For how many days does Esther work?

- Ans**
- ☐ A. 13.5
 - ☐ B. 18
 - ☒ C. 22.5
 - ☐ D. 27

Q.15 A 141.5 m long train, travelling at 57 km/h, crosses a platform in 39 seconds. What is the length of the platform?

- Ans**
- ☐ A. 461 m
 - ☒ B. 476 m
 - ☐ C. 613.5 m
 - ☐ D. 586 m

Q.16 Ankita is two years younger than Anu. Four years hence Anu will be twice as old as Ankita's age three years ago. Find the present ages of Ankita and Anu.

- Ans**
- ☒ A. 12 years and 14 years
 - ☐ B. 14 years and 16 years
 - ☐ C. 15 years and 17 years
 - ☐ D. 13 years and 15 years

Q.17 A tank can be filled by tap A in 3 hrs and B can fill the same in 4 hrs. Tap C can empty the filled tank in 6 hrs. If all the three taps are opened simultaneously, how much time will be taken to fill the tank completely?

- Ans**
- ☐ A. 8 hrs
 - ☐ B. $\frac{10}{7}$ hrs
 - ☒ C. $\frac{12}{5}$ hrs
 - ☐ D. 5 hrs

Q.18 A tank can be filled in 10 hours through a tap. However, due to a leak it takes 11 hours to fill. The tap is stopped when the tank is full. How many hours would it take the tank to be empty due to the leak?

- Ans**
- ☐ A. 100
 - ☐ B. 130
 - ☐ C. 50
 - ☒ D. 110

Q.19 The radius of a sphere is equal to thrice the radius of the base of a cylinder. The height of the cylinder is nine times the radius of its base. If the numerical values of the total surface area of the cylinder and that of the volume of the sphere are the same, what is the height of the cylinder?

- Ans**
- ☒ A. 4.5 units
 - ☒ B. 2.25 units
 - ☒ C. 5 units
 - ☒ D. 3 units

Q.20 A tent is such that the bottom part is a cylinder to a height of 24 m with a diameter of 126 m; and the top part is a cone with the same diameter of the base of 126 m and slant height of 80 m. The canvas is 8 m wide. Calculate the length of the canvas required to make the tent.

- Ans**
- ☒ A. 3190 m
 - ☒ B. 3168 m
 - ☒ C. 3296 m
 - ☒ D. 3020 m

Q.21 If $\sin \theta = \cos \theta$, then $\sec \theta = ?$

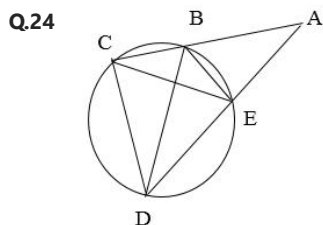
- Ans**
- ☒ A. 1
 - ☒ B. $\sqrt{2}$
 - ☒ C. $\frac{1}{\sqrt{2}}$
 - ☒ D. 2

Q.22 $\operatorname{cosec} \theta = \alpha \Rightarrow \operatorname{cosec}^{-1} \alpha = \theta$ and $\sec \phi = \beta \Rightarrow \sec^{-1} \beta = \phi$. Then the value of $\operatorname{cosec}^{-1} \gamma + \sec^{-1} \gamma =$

- Ans**
- ☒ A. 30°
 - ☒ B. 45°
 - ☒ C. 60°
 - ☒ D. 90°

Q.23 If the equations $20x + 5y + 11 = 0$ and $50x - ky - 9 = 0$ have no solution, then the value of k is:

- Ans**
- ☒ A. 12.5
 - ☒ B. 18
 - ☒ C. -12.5
 - ☒ D. -18



In the figure given above, $\angle BAE = 30^\circ$, $\angle ABE = 80^\circ$ and $\angle DBE = 50^\circ$. What is the measure of $\angle BCE$?

- Ans**
- ☒ A. 10°
 - ☒ B. 20°
 - ☒ C. 25°
 - ☒ D. 5°

Q.25 The mean of three numbers is 21. The range of this data set is 12 and the difference between the two smallest numbers is 3. The greatest of the three numbers is:

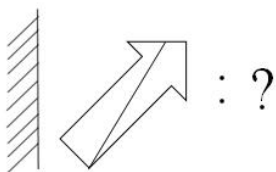
- Ans**
- ☒ A. 24
 - ☒ B. 25
 - ☒ C. 27
 - ☒ D. 28

Section : General Intelligence and Reasoning

Q.29 In a certain language, if BOXER is coded as CQAIW, which word will be coded as BEWSW?

- Ans**
- ☒ A. ACTOR
 - ☒ B. ADTOR
 - ☒ C. ACSOR
 - ☒ D. AFTOR

Q.30 Find the appropriate mirror image of the given figure if the mirror is placed to the left of the figure.



Ans

- ☒ A.
- ☒ B.
- ☒ C.
- ☒ D.

Q.31 Read the given statement and conclusions carefully and select which of the conclusions logically follow(s) from the statement.

Statement:

Some jaguars are cheetahs, Some cheetahs are leopards.

Conclusions:

1. No leopards is a jaguar.
2. Some jaguars are leopards.

- Ans**
- ☒ A. Only conclusion 1 follows
 - ☒ B. Only conclusion 2 follows
 - ☒ C. Either 1 or 2 follows
 - ☒ D. Both 1 and 2 follows

Q.32 Consider the following statements and decide which of the conclusions logically follows from the statements.

Statements:

Freedom and discipline are very important for a good society.

Conclusions:

1. Society faces problems due to people without freedom and discipline.
2. No one in society has freedom and discipline.

- Ans**
- ☒ A. Only conclusion 1 follows
 - ☒ B. Only conclusion 2 follows
 - ☒ C. Both conclusions 1 and 2 follow
 - ☒ D. Neither conclusion 1 nor 2 follows

Q.36 4 W X Z 8 Q P O J 6 G T M V E U H 5 3 B

In the above series, the 5th term to the left of the 8th term from the right is:

- Ans**
- ☒ A. O
 - ☒ B. 5
 - ☒ C. P
 - ☒ D. H

Q.37 Find the next term in the following series.

5E, 7G, 9I, 11K, _____

- Ans**
- ☒ A. 14M
 - ☒ B. 13M
 - ☒ C. 13N
 - ☒ D. 14N

Q.38 Find the next number in the following series.

71, 63, 55, _____

- Ans**
- ☒ A. 45
 - ☒ B. 46
 - ☒ C. 48
 - ☒ D. 47

Q.39 Find the next term in the series.
3X24C, 5V22E, _____.

- Ans**
- ☐ A. 8T20G
 - ☒ B. 7T20G
 - ☐ C. 9T21G
 - ☐ D. 8T21G

Q.40 A cosmetic shop has different brands of cosmetics and accessories. 50% of the store's sales come from selling hair accessories. 40% comes from personal hygiene products. Every quarter, the store's sales on an average is ₹ 15, 00,000. What is the shop's approximate average monthly sales from personal hygiene products?

- Ans**
- ☒ A. ₹ 2,00,000
 - ☐ B. ₹ 2,50,000
 - ☐ C. ₹ 5,00,000
 - ☐ D. ₹ 3,00,000

Q.41 Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

Find the value of Z from the statements:

Statements:

- I. $A + Z = 19$
- II. $Z + P = 12$

- Ans**
- ☐ A. Only statement I is sufficient
 - ☐ B. Only statement II is sufficient
 - ☐ C. Either statement I or II is sufficient
 - ☒ D. Neither I nor II is sufficient

Q.42 Select the correct option to complete the following series.

2, 5, 9, 19, ?

- Ans**
- ☐ A. 36
 - ☒ B. 37
 - ☐ C. 41
 - ☐ D. 43

Q.43 Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

Find the value of x,

Statements:

- 1. $\frac{1}{x} + \frac{1}{9} = \frac{1}{27}$
- 2. $a^2 + p^2 = q^2$

- Ans**
- ☒ A. Only 1 is sufficient
 - ☐ B. Only 2 is sufficient
 - ☐ C. Either 1 or 2 is sufficient
 - ☐ D. Neither 1 nor 2 is sufficient

Q.44 Find the odd one out:

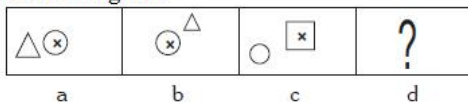
A	B	C	D
3C5F	6G10J	11K14N	15O18R

- Ans
- ☒ A. A
 - ☒ B. B
 - all candidates.
 - ☒ C. D
 - ☒ D. C

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.48 Identify the answer figure that will replace the question mark in the given problem figure.

Problem figure:



Answer figures



- Ans
- ☒ A. 1
 - ☒ B. 2
 - ☒ C. 3
 - ☒ D. 4

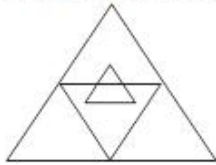
Q.49 Rani and Radha were walking in opposite directions. If Radha was walking in North-East direction then in which direction was Rani walking?

- Ans
- ☒ A. South-West
 - ☒ B. South-East
 - ☒ C. North-East
 - ☒ D. North-West

Q.50 Read the following information carefully and answer the question given below:
 Abinav and Barani play golf and volleyball.
 Krish and Dev play tennis and cricket.
 Barani and Krish play cricket and volleyball.
 Abinav and Dev play golf and tennis.
 One who plays tennis, volley ball and golf is _____.

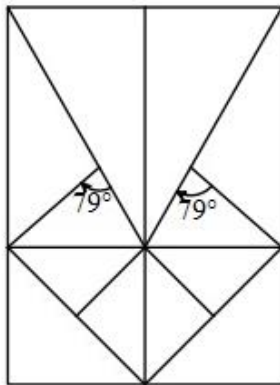
- Ans
- ☒ A. Dev
 - ☒ B. Abinav
 - ☒ C. Krish
 - ☒ D. Barani

Q.51 Find the number of triangles in the following figure



- Ans**
- ☒ A. 5
 - ☒ B. 7
 - ☒ C. 9
 - ☒ D. 11

Q.52 How many right angled triangles are there in this figure?



- Ans**
- ☒ A. 5
 - ☒ B. 8
 - ☒ C. 12
 - ☒ D. 4

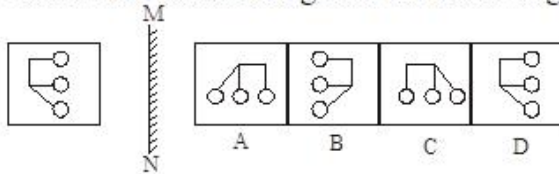
Q.53 Starting from point O facing West a man walks 4 km to reach point A. He turns right, walks 4 km and reaches point B. He then turns right, walks 4 km and reaches point C. Then, he turns right, walks 3 km and reaches point D. He turns left, walks 4 km and reaches point E. Then, he turns right, walks 5 km and reaches point F. The shortest distance (in km) between point A and point E is:

- Ans**
- ☒ A. $5\sqrt{65}$
 - ☒ B. $\sqrt{68}$
 - ☒ C. $\sqrt{65}$
 - ☒ D. $2\sqrt{65}$

Q.54 A is standing at the entrance of a mall waiting for his friend to come. He is facing East. He then turns his head to the right to see if his friend has come. From which direction is he expecting his friend to come?

- Ans**
- ☒ A. South
 - ☒ B. West
 - ☒ C. East
 - ☒ D. North

Q.55 Choose the mirror image for the following figure if mirror is at MN.



- Ans
- ☒ A. A
 - ☒ B. B
 - ☒ C. C
 - ☒ D. D

Section : General Science

Q.58 'g'(Acceleration due to gravity) = ?

- Ans
- ☒ A. GR^2/M
 - ☒ B. R^2M/G
 - ☒ C. G/MR^2
 - ☒ D. GM/R^2

Q.59 The odometer of a car reads 3,000 km at the start of a trip and 3,400 at the end of the trip. If the trip took 8 hours, calculate the average speed of the car in ms^{-1} .

- Ans
- ☒ A. 12.9 ms
 - ☒ B. $14.9 ms^{-1}$
 - ☒ C. $13.9ms^{-1}$
 - ☒ D. $15.9 ms^{-1}$

Q.61 If a plane flies a distance of 4000 m with work done of 20000 J, then the force applied is:

- Ans
- ☒ A. 50 N
 - ☒ B. 0.2 N
 - ☒ C. 5 N
 - ☒ D. 10 N

Q.63 What is the relation between frequency and time period?

- Ans
- ☒ A. $T = 1 \times v$
 - ☒ B. $T = 1/v$
 - ☒ C. $T = v$
 - ☒ D. $T = 1+v$

Q.64 The relation between wave velocity 'v', frequency 'f', and wave length 'λ' is _____.

- Ans
- ☒ A. $v = f/\lambda$
 - ☒ B. $v = f\lambda$
 - ☒ C. $v = \lambda/f$
 - ☒ D. $v = 1/f\lambda$

Q.67 The chemical formula of Sodium Carbonate is _____.

- Ans
- ☐ A. NaCO_3
 - ☐ B. NaCO_2
 - ☒ C. Na_2CO_3
 - ☐ D. Na_3CO_2

Q.68 If the nucleus of an atom of an element contains 11 protons and 12 neutrons, then the mass number of the element is:

- Ans
- ☐ A. 35
 - ☐ B. 11
 - ☐ C. 12
 - ☒ D. 23

Q.69 All samples of carbon dioxide contain carbon and oxygen in the mass ratio of 3 : 8. This is in agreement with the Law of _____.

- Ans
- ☐ A. Conservation of Mass
 - ☒ B. Constant Proportion
 - ☐ C. Conservation of Energy
 - ☐ D. Reciprocal proportion

Q.70 What are the products formed when Ferrous Sulphate crystals are heated in a test tube?

- Ans
- ☐ A. Ferric Oxide + Sulphur dioxide
 - ☒ B. Ferric Oxide + water + Sulphur dioxide + Sulphur trioxide
 - ☐ C. Ferric Oxide + Sulphur dioxide + water
 - ☐ D. Ferric Oxide + water + Sulphur trioxide

Q.72 Gold is mixed with copper to:

- Ans
- ☒ A. make gold hard.
 - ☐ B. make gold soft.
 - ☐ C. make gold more yellowish.
 - ☐ D. give gold luster.

Q.76 Cells of the collenchyma tissue are thickened at the corners with _____.

- Ans
- ☐ A. lignin and cutin
 - ☐ B. suberin and cellulose
 - ☒ C. cellulose and pectin
 - ☐ D. pectin and chitin

Q.79 _____ propagates through stem.

- Ans
- ☐ A. Bryophyllum
 - ☐ B. Bryophyla
 - ☒ C. Rose
 - ☐ D. Tamarind

Q.81 Which country will host the 2023 Rugby World Cup?

- Ans**
- ☐ A. Argentina
 - ☐ B. Brazil
 - ☐ C. England
 - ☒ D. France

Q.83 Which country did NOT participate in the 2018 Champions Trophy Hockey?

- Ans**
- ☐ A. India
 - ☒ B. Malaysia
 - ☐ C. Pakistan
 - ☐ D. Netherlands

Q.84 Who played the lead role in the movie "Hindi Medium" released in 2017?

- Ans**
- ☒ A. Irfan Khan
 - ☐ B. Nawazuddin Siddiqui
 - ☐ C. Raj Kumar Rao
 - ☐ D. Akshay Kumar

Q.85 Who said, "The present changes the past; looking back you do not find what you left behind"?

- Ans**
- ☒ A. Kiran Desai
 - ☐ B. RK Narayan
 - ☐ C. Vikram Seth
 - ☐ D. Khushwant Singh

Q.86 George Saunders, an American author, won the 2017 Man Booker Prize for Fiction for his novel _____.

- Ans**
- ☐ A. Lincoln The Lone Walk
 - ☒ B. Lincoln in the Bardo
 - ☐ C. Speeches and Writing
 - ☐ D. Lincoln Letters

Q.87 Rajdeep Sardesai is known for his role as which of the following?

- Ans**
- ☐ A. Actor
 - ☐ B. Doctor
 - ☒ C. Journalist
 - ☐ D. Politician

Q.92 Sangai deer recently seen in the news is the state animal of which state?

- Ans**
- ☐ A. Gujarat
 - ☐ B. Jammu & Kashmir
 - ☐ C. Tamilnadu
 - ☒ D. Manipur

Q.93 How many districts does Uttar Pradesh have?

- Ans**
- ✓ A. 75
 - ✗ B. 77
 - ✗ C. 79
 - ✗ D. 73

Q.95 In the year 1778, the British established the first printing press at _____.

- Ans**
- ✓ A. Calcutta
 - ✗ B. Bombay
 - ✗ C. Ahmedabad
 - ✗ D. Madras

Q.96 The Narmada and Tapi are _____ flowing rivers.

- Ans**
- ✓ A. west
 - ✗ B. east
 - ✗ C. south
 - ✗ D. north

Q.98 Who was appointed as the chairman of DRDO in August 2018?

- Ans**
- ✓ A. Dr. G Satheesh Reddy
 - ✗ B. Sathish Dhavan
 - ✗ C. Malathi Varma
 - ✗ D. K Sivan

Q.99 Mayurbhanj mines are known for which of the following metals?

- Ans**
- ✓ A. Iron-ore
 - ✗ B. Copper
 - ✗ C. Aluminum
 - ✗ D. Bauxite

Q.100 In 2018, the Ministry of Drinking Water and Sanitation launched the second project of Swajal Yojana in the village:

- Ans**
- ✗ A. Bhikampura, Karauli, Haryana
 - ✓ B. Bhikampura, Karauli, Rajasthan
 - ✗ C. Bhikampura, Karauli, Himachal Pradesh
 - ✗ D. Bhikampura, Karauli, Gujarat