



RRB Group D 2018

Level-1 Posts (Group D) · CEN 02/2018 · CBT (17 Sep - 17 Dec 2018) · General Science ·
Question Paper

English

All 12 Shifts (Sets) · General Science Section · Official Answer Key

About this Compilation

This booklet contains all **12 shift papers** of the **RRB Group D 2018** examination in **English** (General Science section only), with the correct option marked as per the official answer key.

✓ Correct option (highlighted green)

Source and order. Original question images of official RRB response sheets saved in our library (no retyping, no OCR). Every paper is printed in RRB's own question order (Maths Q1-25, Reasoning Q26-55, General Science Q56-80, General Awareness Q81-100), options in RRB's own order.

Shifts. This English edition holds **12 of the roughly 152 shifts** of the exam (6 in Sep, 2 in Oct, 2 in Nov, 2 in Dec): only the shifts for which a response sheet with the questions in English was saved. The other shifts were not saved by us or only in Hindi (see the Hindi book).

Answer key. Official RRB key (green tick of the response sheets); 31 questions dropped by RRB ("ignored for all candidates") are printed as asked, with RRB's note and no tick; 2 questions show no correct option on the only saved response sheet: printed without a tick, with a note.

Not readable. 7 questions of 6 shifts could not be read from any saved sheet (sheet printed short or the question printed without its images): 17 Sep 2018 9:00 AM: 1; 18 Sep 2018 9:00 AM: 1; 19 Sep 2018 12:30 PM: 1; 31 Oct 2018 12:30 PM: 1; 5 Nov 2018 4:00 PM: 2; 10 Dec 2018 9:00 AM: 1.

English not saved for 98 questions (8 shifts): the Hindi version is printed, marked HINDI.

How to use

- Use the **Index** page to jump directly to any set (clickable).
- Questions appear section by section in the order of the paper, numbered 1 onward.
- Diagram and wide-table questions appear at full width at the end of their section.
- The correct answer is highlighted in green with a tick.

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Index — All Sets (click to open)

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<div>Set 2</div> <div>17 Sep 2018</div> <div>4:00 PM - 5:30 PM</div>	<div>Set 8</div> <div>31 Oct 2018</div> <div>12:30 PM - 2:00 PM</div>
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General Science

24 Questions • Answer Key

Q1 General Science

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

- A. shape
- B. mass
- C. weight
- D. speed



Q2 General Science

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

- A. weight
- B. acceleration
- C. mass
- D. impulse



Q3 General Science

The mass of the Earth is:

- A. 6×10^{-24} kg
- B. 6×10^{24} kg
- C. 6×10^{23} kg
- D. 6×10^{-23} kg



भौतिक विज्ञान में किये गए कार्य को परिभाषित किया जाता है-

- A. किसी वस्तु पर कार्यान्वित बल, जो वस्तु को विस्थापित नहीं कर पाता है, के द्वारा
- B. विस्थापित वस्तु द्वारा
- C. वस्तु पर कार्यान्वित बल द्वारा
- D. उपरोक्त सभी के द्वारा

A. A और B सही हैं

B. B और C सही हैं

C. A और C सही हैं

D. D सही है

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q5 General Science

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 _____.

A. 8 J

B. 16 J

C. 24 J

D. 32 J

Q6 General Science

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

A. gravitational force

B. centripetal force

C. simple force

D. angular force



Q7 General Science

In which of the following media does sound travel the fastest?

- A. Solids
- B. Liquids
- C. Gases
- D. Vacuum



Q8 General Science

Which of the following animals can produce ultrasound?

- A. Shark
- B. Porpoises
- C. Elephant
- D. Moths



Q9 General Science

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

- A. 4.5 J
- B. 72 J
- C. 24 J
- D. 7.2 J



Q10 General Science

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

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



Q11 General Science

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

- A. Aluminium
- B. Iron
- C. Carbon
- D. Chlorine



Q12 General Science

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?

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



Q13 General Science

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

- A. 8 : 1
- B. 1 : 8
- C. 1 : 2
- D. 2 : 1



Q14 General Science

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

- A. 5
- B. 7
- C. 8
- D. 10



Q15 General Science

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

- A. Sodium chloride
- B. Ammonium chloride
- C. Sodium carbonate
- D. Sodium bicarbonate



Q16 General Science

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

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



Q17 General Science

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

- A. Lead
- B. Copper
- C. Silver
- D. Aluminium



Q18 General Science

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

- A. 18th
- B. 17th
- C. 16th
- D. 15th



Q19 General Science

Generally, the valency of electropositive elements is:

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



Q20 General Science

Which of the following animals is warm-blooded?

- A. Fish
- B. Toad
- C. Crocodile
- D. Pigeon



Q21 General Science

The flexibility in plants is due to _____ tissue.

- A. phloem
- B. xylem
- C. sclerenchyma
- D. collenchyma



Q22 General Science

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

- A. Respiration
- B. Transpiration
- C. Photosynthesis
- D. Excretion



Q23 General Science

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

- A. sexual propagation
- B. vegetative propagation
- C. fission
- D. regeneration



Q24 General Science

The fertilised egg, the zygote, gets implanted in the:

1

- A. uterus
- B. vagina
- C. cervix
- D. ovary



General Science

25 Questions • Answer Key

Q1 General Science

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

- A. 0.025
- B. 0.255
- C. 255
- D. 25



Q2 General Science

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

- A. Potential energy
- B. Work
- C. Momentum
- D. Force



Q3 General Science

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

- A. Nuclear force
- B. Gravitational force
- C. Tidal force
- D. Electrostatic force



Q4 General Science

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

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



Q5 General Science

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

- A. — 14 m
- B. 14 m
- C. — 140 m
- D. 140 m



Q6 General Science

_____ is the rate of doing work.

- A. Energy
- B. Force
- C. Velocity
- D. Power



Q7 General Science

A body rolling down on a hill has:

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



Q8 General Science

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

- A. 4
- B. 11
- C. 13
- D. 19



Q9 General Science

Baking powder is a mixture of _____ and _____.

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

Q10 General Science

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

- A. -one
- B. -ol
- C. -oic
- D. -al

Q11 General Science

Group _____ contain non-reactive gases.

- A. 17
- B. 18
- C. 1
- D. 7

Q12 General Science

The valency of chlorine with respect to oxygen is ____.

- A. 5
- B. 7
- C. 2
- D. 4



Q13 General Science

The element with atomic number 57 belongs to:

A. d-block



B. s-block

C. p-block

D. f-block

Q14 General Science

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

A. 90°



B. 0°

C. 45°

D. 120°

Q15 General Science

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

A. $\frac{1}{5}$

B. 6

C. 5

D. $\frac{1}{6}$



Q16 General Science

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

A. 8 Hz

B. 16 Hz



C. 25 Hz

D. 50 Hz



Q17 General Science

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?

A. $3 \times 10^{-2} \text{ m/s}$



B. 0.3 m/s

C. $3 \times 10^2 \text{ m/s}$

D. $3 \times 10^{-3} \text{ m/s}$

Q18 General Science

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

A. Transverse

B. Stationary

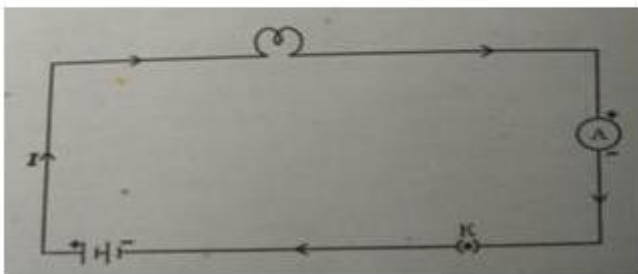
C. Longitudinal



D. Both, transverse and longitudinal

Q19 General Science

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



A. Electrons



B. Current

C. Voltage

D. Resistance



Q20 General Science

_____ element has the largest atom and _____ Smallest atom.

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

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q21 General Science

Male germ cells are produced in the _____.

- A. Testes
- B. Scrotum
- C. Vas deferens
- D. Prostrate

Q22 General Science

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

- A. collenchyma
- B. parenchyma
- C. sclerenchyma
- D. phloem

Q23 General Science

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

- A. Giberrellins
- B. Auxins
- C. Cytokinins
- D. Ascorbic acid



Q24 General Science

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

A. 108

B. 32

C. 315



D. 101

Q25 General Science

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

A. Suberin



B. Chitin

C. Cutin

D. Safranin



General Science

25 Questions • Answer Key

Q1 General Science

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

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



Q2 General Science

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

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



Q3 General Science

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

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

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q4 General Science

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

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

- A. 15 m
- B. 35 m
- C. 50 m
- D. 80 m



Q5 General Science

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.

- A. 0.96 unit
- B. 1.50 unit
- C. 2.00 unit
- D. 16.00 unit



Q6 General Science

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

- A. 100 W
- B. 200 W
- C. 500 W
- D. 2000 W



Q7 General Science

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

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

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q8 General Science

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

- 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.



Q9 General Science

Sound waves with frequencies below the audible range are called:

- A. ultrasonic
- B. supersonic
- C. infrasonic
- D. ultrasound



Q10 General Science

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

- A. oxygen
- B. chlorine
- C. nitrogen
- D. hydrogen



Q11 General Science

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

- A. 0.2 A
- B. 0.3 A
- C. 0.6 A
- D. 0.9 A



Q12 General Science

The correct formula of calcium hydroxide is:

- A. CaOH
- B. CaOH₂
- C. Ca(OH)₂
- D. Ca₂OH



Q13 General Science

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

A. 180°

B. 90°



C. 45°

D. 0°

Q14 General Science

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

A. 4.7

B. 8.0

C. 2.4



D. 10.1

Q15 General Science

A chemical reaction in which heat is generated is called a/an_____.

A. combustion reaction

B. endothermic reaction

C. displacement reaction

D. exothermic reaction



Q16 General Science

Which of the following compounds does NOT possess water of crystallisation?

A. Copper sulphate

B. Washing soda

C. Baking soda



D. Gypsum



Q17 General Science

Which of the following is malleable and ductile?

A. Copper



B. Carbon

C. Phosphorus

D. Sulphur

Q18 General Science

5-8% of acetic acid is called:

A. glacial acetic acid

B. ester

C. ethanol

D. vinegar



Q19 General Science

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

A. 1st

B. 16th

C. 17th



D. 18th

Q20 General Science

Who classified elements based on atomic numbers?

A. Dobereiner

B. Newlands

C. Mendeleev

D. Moseley



Q21 General Science

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

A. Spirogyra



B. Marsilea

C. Chara

D. Riccia

Q22 General Science

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

A. Parenchyma

B. Sclerenchyma

C. Xylem



D. Collenchyma

Q23 General Science

The breakdown of pyruvate using O_2 takes place in the ____.

A. nucleus

B. vacuoles

C. lysosomes

D. mitochondria



Q24 General Science

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

A. Insulin

B. Testosterone



C. Thyroxin

D. Animal hormone



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

A. Planaria

B. Hydra



C. Yeast

D. Plasmodium



General Science

24 Questions · Answer Key

Q1 General Science

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 ____.

A. $3g$



B. $\frac{1}{3}g$

C. $9g$

D. $\frac{1}{9}g$

Q2 General Science

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

A. 5.67 m

B. 5.67 ms^{-1}



C. 5.67 s^{-1}

D. 6.67 ms^{-1}

Q3 General Science

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

A. towards the north

B. towards the south

C. towards the east

D. zero



Q4 General Science

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 ____.

A. $\frac{1}{2}$

B. 1

C. 2



D. 4



Q5 General Science

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

- A. Frictional force
- B. Gravitational force
- C. Potential energy
- D. Kinetic energy



Q6 General Science

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

- A. Kinetic energy
- B. Chemical energy
- C. Potential energy
- D. Mechanical energy



Q7 General Science

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:

- 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



Q8 General Science

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

- 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



Q9 General Science

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

A. $2\ \Omega$



B. $3\ \Omega$

C. $6\ \Omega$

D. $18\ \Omega$

Q10 General Science

A source of 6 V maintains a current of 0.5 A in a resistor. The power supplied by the source to the resistor will be ____.

A. 0.5 W

B. 1.0 W

C. 1.5 W

D. 3.0 W



Q11 General Science

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

A. Dobereiner's Triads

B. Newland's Octaves

C. Mendeleev's periodic table

D. Modern periodic table



Q12 General Science

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

A. solids

B. liquids

C. gases

D. plasma



Q13 General Science

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

- 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



Q14 General Science

Tooth decay starts when the pH of the mouth is:

- 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



Q15 General Science

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

- 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



Q16 General Science

Solder is an alloy of _____.

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



Q17 General Science

_____ is used as a fuel in cars with petrol.

- A. Butane
- B. Ethanol
- C. Benzene
- D. Alcohol



Q18 General Science

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

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

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q19 General Science

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

- A. atomic number
- B. atomic mass number
- C. number of valence electrons
- D. atomic size



Q20 General Science

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

- A. Ernst Haeckel
- B. Robbert Whittaker
- C. Carl Woese
- D. Charles Darwin



Q21 General Science

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

A. Xylem vessels

B. Meristematic tissue

C. Phloem



D. Ground tissue

Q22 General Science

Goitre is caused due to the deficiency of ____.

A. calcium

B. iodine



C. iron

D. sodium

Q23 General Science

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

A. ovary

B. ovule

C. embryo



D. stigma

Q24 General Science

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

A. heredity



B. evolution

C. variation

D. progeny



General Science

25 Questions · Answer Key

Q1 General Science

During free fall condition, the body is in the state of:

- A. Motion
- B. Rest
- C. Weightlessness
- D. Work done



Q2 General Science

If a car uses total energy of 2000 J and its output is 500 J, then the efficiency of the car is _____.

- A. 50%
- B. 25%
- C. 40%
- D. 30%



Q3 General Science

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

- A. 5 s
- B. 5π s
- C. 10 s
- D. 10π s



Q4 General Science

Which of the following is a unit of gravitational constant G?

- 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 .



Q5 General Science

An object of 1 kg is raised through a height of 10 m. The work done by the force of gravity is ($g = 9.8 \text{ m/s}^2$)

- A. 9.8 J
- B. -9.8 J
- C. 98 J
- D. -98 J



Q6 General Science

Potential energy is equal to:

- A. mgh
- B. $\frac{1}{2}mv^2$
- C. Fs
- D. $\frac{1}{2}mu^2$



Q7 General Science

If work has a positive value, the body on which work has been done would:

- A. Have a zero value
- B. Remain constant
- C. Gain energy
- D. Lose energy



Q8 General Science

The region of high density of particles in the medium during propagation of sound:

- A. Rarefaction
- B. Resonation
- C. oscillation
- D. compression



Q9 General Science

The velocity of sound in air at 25°C is _____.

- A. 300 m/s
- B. 330 m/s
- C. 346 m/s
- D. 360 m/s



Q10 General Science

Which of the following is not based on the practical applications of heating effect of electricity?

- A. Electric flat iron
- B. Electric toaster
- C. Electric kettle
- D. Electric bell



Q11 General Science

A current of 2 A is maintained in a resistor of 5 Ω . The amount of charge that flows through the resistor in one minute is

- A. 2 C
- B. 10 C
- C. 60 C
- D. 120 C



Q12 General Science

_____ is a liquid state non-metal.

- A. Bromine
- B. Mercury
- C. Helium
- D. Calcium



Q13 General Science

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.

- A. 8.86%
- B. 6.96%
- C. 8.1%
- D. 7.96%



Q14 General Science

Which of the following is not an element?

- A. Oxygen gas
- B. Copper
- C. Water
- D. Helium



Q15 General Science

Which of the following acid is produced in our stomach?

- A. Acetic acid
- B. Hydrochloric acid
- C. Sulphuric acid
- D. Lactic acid

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q16 General Science

Litmus solution is extracted from:

- A. Hydrangea
- B. Petunia
- C. Lichen
- D. Geranium



Q17 General Science

_____ alloy contains Tin.

- A. Brass
- B. Steel
- C. Alumel
- D. Solder



Q18 General Science

Complete combustion of hydrocarbon gives which of the following?

- A. $\text{CO}_2 + \text{H}_2\text{O}$
- B. $\text{CO} + \text{H}_2\text{O}$
- C. $\text{CO}_2 + \text{OH}$
- D. $\text{CO} + \text{OH}$



Q19 General Science

In Mendeleev's periodic table, the horizontal rows are called:

- A. Periods
- B. Groups
- C. Units
- D. Classes



Q20 General Science

The elements having similar chemical properties but different atomic masses are called:

- A. isomers
- B. Isobars
- C. Isotopes
- D. Halogens

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).



Q21 General Science

In sclerenchyma, the cell walls are thickened due to:

A. Lignin



B. Cutin

C. Fats

D. Cellulose

Q22 General Science

Which of the following statements is WRONG?

All chordates _____.

A. have a notochord

B. have a dorsal nerve cord

C. are diploblastic



D. are coelomate

Q23 General Science

The phloem in plants are responsible for:

A. Transport of water

B. Transport of oxygen

C. Transport of minerals

D. Transport of food



Q24 General Science

Which of the following type of reproduction allow for greater variation to be generated?

A. asexual

B. Binary fission

C. sexual



D. Regeneration



Germ cells containing the stored food for embryo is called:

A. Female gamete



B. Male gamete

C. isogamete

D. zoogamete



General Science

25 Questions · Answer Key

Q1 General Science HINDI - no English version saved

एक वस्तु 4 s में 20 m और फिर 2 s में अगले 15 m की यात्रा करती है। वस्तु की औसत चाल कितनी है?

- A. 5.84 m
- B. 5.84 ms⁻¹
- C. 5.84 s⁻¹
- D. 5.83 ms⁻¹ ✓

Q2 General Science HINDI - no English version saved

एक वस्तु 4 s में 21 m और फिर 2 s में अगले 15 m की यात्रा करती है। वस्तु की औसत चाल कितनी है?

- A. 6.00 m
- B. 6.00 ms⁻¹ ✓
- C. 6.00 s⁻¹
- D. 6.00 ms¹

Q3 General Science

The product of mass and acceleration = _____

- A. Thrust
- B. Pressure
- C. Force ✓
- D. Velocity

Q4 General Science HINDI - no English version saved

भूतल से 6 m ऊपर स्थित 10 kg द्रव्यमान की वस्तु में निहित ऊर्जा _____ होगी ($g = 9.8 \text{ ms}^{-2}$)

- A. 5.88 J
- B. 58.8 J
- C. 588 J ✓
- D. 5,880 J



Q5 General Science HINDI - no English version saved

द्रव्यमान और वेग का गुणनफल क्या कहलाता है?

- A. बल
- B. संवेग
- C. दाब
- D. उत्क्षेप

Q6 General Science HINDI - no English version saved

सोडियम कार्बोनेट का आणविक द्रव्यमान _____ होता है।

- A. 106
- B. 104
- C. 105
- D. 115

Q7 General Science HINDI - no English version saved

दाब की SI इकाई है:

- A. न्यूटन
- B. जूल
- C. पास्कल
- D. डाइन

Q8 General Science

The speed of sound is fastest in:

- A. Steel
- B. Water
- C. Air
- D. Kerosene oil



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Q9 General Science HINDI - no English version saved

यदि किसी दर्पण की फोकस लंबाई +15 है, तो यह है:

- A. डबल लेंस
- B. समतल दर्पण
- C. उत्तल दर्पण ✓
- D. अवतल दर्पण

Q10 General Science HINDI - no English version saved

धातु में एक मुक्त इलेक्ट्रॉन के पथ का आकार होता है:

- A. वृत्ताकार
- B. सीधी रेखा
- C. वक्र ✓
- D. वर्गाकार

Q11 General Science

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?

- A. 0.798 A
- B. 0.895 A ✓
- C. 0.879 A
- D. 0.795 A

Q12 General Science HINDI - no English version saved

_____ परमाणु का आयतन सबसे कम होता है।

- A. He ✓
- B. Si
- C. P
- D. S



Q13 General Science

In modern periodic table, a zigzag line separates _____.

- A. metals from halogens
- B. metals from metalloids
- C. non-metals from metalloids
- D. metals from non-metals



Q14 General Science

The mass of 0.6 mole of nitrogen is:

- A. 168 g
- B. 16.8 g
- C. 1.68 g
- D. 0.168 g



Q15 General Science

A catalyst is a substance that:

- A. Slows the reaction
- B. Releases the reactants
- C. Speeds up the reaction
- D. Neutralises the equation reaction



Q16 General Science HINDI - no English version saved

निष्क्रिय विलयन का pH मान होता है:

- A. 4
- B. 5
- C. 6
- D. 7



Q17 General Science

_____ is the most abundant element in the Sun's atmosphere.

- A. Helium
- B. Oxygen
- C. Neon
- D. Hydrogen



Q18 General Science

_____ is not an allotropic form of carbon.

- A. Graphite
- B. Coal
- C. Fullerene
- D. Diamond



Q19 General Science

Pick the correct statement from the following.

- 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



Q20 General Science HINDI - no English version saved

_____ प्रकृति में विद्युतघनात्मक होती हैं।

- A. अधातुएं
- B. अर्ध-धातुएं
- C. धातुएं
- D. उपधातुएं



Q21 General Science

The phloem in the plants does the function of:

- A. Mineral movement
- B. Providing support to stem
- C. Conduction of water
- D. Conduction of food



Q22 General Science

_____ tissue is composed of dead cells.

- A. Parenchyma
- B. Collenchyma
- C. Sclerenchyma
- D. Aerenchyma



Q23 General Science

Rings of _____ are present in the throat.

- A. ligament
- B. cartilage
- C. tendons
- D. areolar



Q24 General Science HINDI - no English version saved

जीवाश्मों के अध्ययन को क्या कहा जाता है?

- A. जीवाश्म विज्ञान
- B. वर्गीकरण
- C. पुरावनस्पति शास्त्र
- D. पुराजैविकी



Q25 General Science

The development of a child inside the mother's (in case of human beings) body takes approximately ____ months.

A. 7

B. 8

C. 9



D. 10



General Science

25 Questions • Answer Key

Q1 General Science

The SI unit of Momentum is _____.

- A. Newton
- B. Kg ms^{-1}
- C. Kg ms^{-2}
- D. Dyne



Q2 General Science

When a body is immersed in water, an upward force acts on it. What is this force called?

- A. Force of Friction
- B. Force of Gravity
- C. Force of Buoyancy
- D. Force of Gravitation



Q3 General Science

The mass of object on the Earth is 60 Kg. What is its mass on the Moon?

- A. 10Kg
- B. 60Kg
- C. 60N
- D. 10N



Q4 General Science

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:

- A. 5 m
- B. 4 m
- C. -5 m
- D. 3 m



Q5 General Science

Find the potential difference when the current is 10 A and the resistance is 50 ohms.

- A. 5 V
- B. 500 V
- C. 500 Ohm
- D. 50 V



Q6 General Science

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 $g = 10 \text{ ms}^{-2}$

- A. 337.5 W
- B. 300 J
- C. 300 W
- D. 300 ms



Q7 General Science

The energy possessed by an object because of its position or shape is called _____.

- A. static energy
- B. potential energy
- C. kinetic energy
- D. latent energy



Q8 General Science

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

- A. Only A is true
- B. Only B is true
- C. Both A and B are true
- D. Neither A nor B is true



Q9 General Science

When an object is _____ of a convex lens, the nature of the image is enlarged, virtual and erect

- A. At infinity
- B. At $2F_1$
- C. Between F_1 and O ☒
- D. At F_1

Q10 General Science

The SI unit of resistivity is:

- A. $\text{Ohm} \cdot \text{m}$ ☒
- B. Ohm
- C. Ampere
- D. Joule

Q11 General Science

How much work is done in moving a charge of 5 C across two points having a potential difference of 14 V?

- A. 44 J
- B. 48 J
- C. 14 J
- D. 70 J ☒

Q12 General Science

Group 1 elements are called _____.

- A. Alkali metals ☒
- B. Noble gases
- C. Halogens
- D. Alkaline earth metals



Q13 General Science

The word 'mole' was introduced around 1896 by:

- A. John Dalton
- B. Wilhelm Ostwald ☒
- C. Joseph Proust
- D. Maharishi Kanad

Q14 General Science

At what temperature can water be in both, liquid and gaseous state?

- A. 0°C
- B. 105°C
all candidates.
- C. 100°C
- D. 273°C

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q15 General Science

_____ is NOT a photochemical reaction.

- A. Photography
- B. Photosynthesis
- C. Free radical chlorination of methane
- D. Synthesis of ammonia from nitrogen and hydrogen ☒

Q16 General Science

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.

- A. Only A is true
- B. Only B is true ☒
- C. A and B are both true
- D. A and B are both false



Q17 General Science

What is the property of a metal having a shining surface called?

- A. Hardness
- B. Ductility
- C. Malleability
- D. Metallic lustre



Q18 General Science

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

- A. Only A is true
- B. Only B is true
- C. A and B are both true
- D. A and B are both false



Q19 General Science

Which element has the maximum melting and boiling point?

- A. Gold
- B. Osmium
- C. Lithium
- D. Tungsten



Q20 General Science

What is the characteristic of Rare Earth Elements?

- 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.



Q21 General Science

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.

A. naked



B. winged

C. non-motile male gametes

D. true traits

Q22 General Science

Which of the following is a non-vascular plant?

A. Marsilea

B. Fern

C. Chara



D. Deodar

Q23 General Science

Endocrine glands are also known as:

A. Hepatic gland

B. Thyroid Gland

C. Ductless Gland



D. Pituitary Gland

Q24 General Science

New individual develops from buds:

A. Paramecium

B. Bacteria

C. Amoeba

D. Hydra



Pollination is a characteristic of plants from the group:

A. Angiosperm



B. Allogamy

C. Bryophytes

D. Pteridophytes



General Science

24 Questions • Answer Key

Q1 General Science

Acceleration due to gravity $g =$ _____.

A. GM / R^2



B. MR^2 / G

C. G / MR^2

D. GMR^2

Q2 General Science

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:

A. -1

B. 1



C. 2

D. -2

Q3 General Science

Motion of a boy, sitting on a swing, is _____.

A. periodic



B. non- uniform

C. uniform

D. circular



Q4 General Science

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.

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

Q5 General Science

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?

A. 0.01 J

B. 10 J

C. 1 J

D. 100 J



Q6 General Science

Find the energy possessed by an object of mass 10 kg when it is at a height of 6 m above the ground. Given, $g = 9.8 \text{ m s}^{-2}$

A. 578 J

B. 578 W

C. 588 W

D. 588 J



Q7 General Science

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

A. a, b and c

B. a, b, c, d



C. c, d

D. a, d

Q8 General Science

In which of the following is the velocity of sound is maximum at 25 °C?

A. Brass

B. Iron

C. Aluminium



D. Steel

Q9 General Science

In a Concave mirror, where should the Object be placed to get a real, inverted and diminished image between C and F?

A. At C

B. Beyond C



C. Between F and C

D. Between F and P

Q10 General Science

The SI unit of resistance is:

A. Volt

B. Ampere

C. Ohms



D. Coulomb



Q11 General Science

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?

- A. 24 A
- B. 12 A
- C. 8.5 A
- D. 10 A



Q12 General Science

How many moles are present in 54 g of He?

- A. 10 moles
- B. 13.5 moles
- C. 12 moles
- D. 25 moles



Q13 General Science

How many atoms are present in a molecule of Ca(OH)_2 ?

- A. 4
- B. 5
- C. 6
- D. 7



Q14 General Science

Which of the following is NOT a unit that measures temperature?

- A. Kelvin
- B. Celsius
- C. Fahrenheit
- D. Pascal



Q15 General Science

Which of the following is used as an antacid?

- A. Lithium hydroxide
- B. Magnesium hydroxide
- C. Sodium hydroxide
- D. Aluminium hydroxide

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q16 General Science

The boiling point of ethanol is:

- A. 78°C
- B. 108°C
- C. 58°C
- D. 98°C

Q17 General Science

Alkenes, unsaturated hydrocarbon containing a double bond between two carbon atoms, have a general formula, which is:

- A. $\text{C}_n\text{H}_{2n+2}$
- B. $\text{C}_n\text{H}_{2n+1}$
- C. C_nH_{2n}
- D. $\text{C}_n\text{H}_{2n-1}$

Q18 General Science

D block elements are found in:

- A. between 2^{nd} to 10 (3-12)
- B. only 18^{th} group
- C. only 8^{th} group element
- D. 9^{th} group element



Q19 General Science

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?

A. 33



B. 34

C. 31

D. 39

Q20 General Science

In _____ tissue, the cells are living, elongated and irregularly thickened at the corners

A. Parenchyma

B. Sclerenchyma

C. Collenchyma



D. Aerenchyma

Q21 General Science

In which of the following class, animals lack scales and have mucus glands in the skin?

A. Pisces

B. Reptiles

C. Amphibia



D. Aves

Q22 General Science

The walls of the ventricles are _____ than atrial walls.

A. thicker



B. thinner

C. smaller

D. larger



Q23 General Science

Which of the following can reproduce by regeneration as well as budding?

- A. Amoeba
- B. Hydra
- C. Plasmodium
- D. Yeast



Q24 General Science

_____ brings about the changes in appearance seen in boys at the time of puberty.

- A. Adrenaline
- B. Oestrogen
- C. Testosterone
- D. Prolactin



General Science

23 Questions · Answer Key

Q1 General Science

In the formula $F = GMm/d^2$, what is G called?

A. Universal gravitational constant



B. Acceleration due to gravity

C. Gravitational Force

D. Greater height

Q2 General Science

Linear momentum is equal to:

A. Mass $\times$ volume

B. Speed $\times$ weight

C. Force $\times$ height

D. Mass $\times$ velocity



Q3 General Science

Work can only be done when there is _____.

A. Power

B. Energy



C. Force

D. Momentum

Q4 General Science

When the angle between the force and the displacement is 90° , the work done is _____.

A. positive

B. negative

C. zero (no work is done)



D. neutral



Q5 General Science

746 Watts is known as:

- A. 1 KW
- B. 1 Horse power
- C. 1 Joule
- D. 1 Pascal



Q6 General Science

_____ is a quantity that does NOT describe the nature of a wave.

- A. Wavelength
- B. Frequency
- C. Wave speed
- D. Altitude



Q7 General Science

In longitudinal waves, the particles vibrate in a _____ direction of propagation.

- A. perpendicular
- B. parallel
- C. semicircular
- D. planar



Q8 General Science

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.

- A. 5 C
- B. 30 C
- C. 300 C
- D. 350 C



Q9 General Science

A $10\ \Omega$ resistance wire is doubled on it. Calculate the new resistance of the wire.

- A. $2.25\ \Omega$
- B. $1.00\ \Omega$
- C. $1.25\ \Omega$
- D. $2.5\ \Omega$



Q10 General Science

Which of the following will have maximum mass?

- A. 0.1 mole of NH_3
- B. 1022 atoms of Carbon
- C. 1022 molecules of CO_2
- D. 1 gm of Iron



Q11 General Science

_____ proposed that each element had a characteristic atomic mass.

- A. Kanad
- B. Lavoisier
- C. Democritus
- D. Dalton



Q12 General Science

Which of the following will NOT diffuse?

- A. Smoke
- B. Vapour of scent
- C. Powdered fenugreek
- D. The smoke of an incense stick



Q13 General Science

Which of the following combines with O_2 in our body to provide energy?

- A. Glycogen
- B. Glucose
- C. Amino acids
- D. Fatty acids



Q14 General Science

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 HCl, H_2SO_4, NH_4OH
- B. An acid which is partially ionized in water and produces less number of H^+ ions. For example $CH_3COOH, H_2CO_3, H_2SO_3$

- A. Only A is true
- B. Only B is true
- C. Both A and B are true
- D. Both A and B are false



Q15 General Science

The bonds formed by the elements having larger atoms are:

- A. stronger
- B. weaker
- C. very strong
- D. very weak



Q16 General Science

A reaction in which one or more molecules of a substance are added across a double or triple bond is called:

- A. Esterification
- B. Functional group
- C. Addition reaction
- D. Saponification



Q17 General Science

In the Modern Periodic Table, which of the following periods has the maximum number of non-metals?

- A. 1
- B. 2
- C. 3
- D. 4



Q18 General Science

An element has electronic configuration 2,8,6. It belongs to _____.

- A. 1 group and 1 period
- B. 2 group and 2 period
- C. 16 group and 3 period
- D. 6 group and 2 period



Q19 General Science

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.

- 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



Q20 General Science

_____ fills the space inside the organs and supports the internal organs and helps in repair of tissue.

- A. Ligament
- B. Tendons
- C. Adipose
- D. Areolar



Q21 General Science

The common passage for food and air in human being is:

- A. Esophagus
- B. Nasal cavity
- C. Larynx
- D. Pharynx



Q22 General Science

Which of the following DO NOT take part in vegetative propagation?

- A. Root
- B. Stem
- C. Leaf
- D. Flower



Q23 General Science

During which of the following types of reproduction do the fully matured tiny individuals detach from the parent body and become new independent individuals?

- A. Fission
- B. Multiple fission
- C. Budding
- D. Regeneration



General Science

25 Questions • Answer Key

Q1 General Science

What happens to the force between two objects if the masses of both the objects are tripled?

- A. Force will get same time
- B. Force will get two time
- C. Force will get three time
- D. Force will get nine times



Q2 General Science

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:

- A. $2.0 \times 10^2 \text{ N}$
- B. $3.0 \times 10^2 \text{ N}$
- C. $4.0 \times 10^3 \text{ N}$
- D. $5.0 \times 10^3 \text{ N}$



Q3 General Science

All forces have:

- A. Magnitude
- B. Direction
- C. Both Magnitude and Direction
- D. Density



Q4 General Science

Magnitude of displacement from initial position to final position is the:

- A. curved lines
all candidates.
- B. circle
- C. total distance
- D. straight line

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).



Q5 General Science

An object of mass 3 m is raised to a height h above ground level. Find the potential energy of the object.

A. $\frac{1}{3} mgh$

B. $3 mgh$



C. $6 mgh$

D. $9 mgh$

Q6 General Science

Which of the following statements is true for the law of conservation of energy?

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.

Q7 General Science

Work has _____.

A. only direction and no magnitude

B. no direction and only magnitude



C. both direction and magnitude

D. no direction and no magnitude

Q8 General Science

Which of the following is a use of ultrasonography?

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.



Q9 General Science

A spherical mirror, whose reflecting surface is curved outwards, is called a:

- A. Simple mirror
- B. Convex mirror
- C. Concave mirror
- D. Plain mirror

Q10 General Science

Crude oil is:

- A. colourless
- B. odourless
- C. Smelly, yellow to black liquid
- D. Odourless, yellow to black liquid

Q11 General Science

In a _____ circuit, the electricity has only one path to flow through.

- A. parallel
- B. series
- C. complete
- D. incomplete

Q12 General Science

The postulate that all atoms of an element are exactly alike was proved wrong with the discovery of _____.

- A. radioactivity
- B. allotropy
- C. isotopes
- D. isobars

Q13 General Science

What is the counting unit for a chemist?

- A. Molecule
- B. Anode
- C. Anion
- D. Mole



Q14 General Science

Which of these is not homoatomic molecules?

- A. N_2
- B. H_2
- C. P_4
- D. CO_2



Q15 General Science

When crystals are heated, water of crystallisation is lost and the substance turns into a/an _____ form.

- A. anhydrous
- B. crystalline
- C. vapour
- D. gaseous



Q16 General Science

What happens to an acid or a base in a water solution?

- 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.



Q17 General Science

Which of the following non-metals catches fire if it is exposed to air?

- A. Nitrogen
- B. Phosphorus
- C. Sulphur
- D. Uranium

Q18 General Science

Chose the INCORRECT one for Aldehydes.

- 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. $\text{C}_3\text{H}_7\text{COH} \rightarrow \text{butanal} \rightarrow \text{butyraldehyde}$

Q19 General Science

Which one of the following is NOT a noble gas?

- A. Helium
- B. Krypton
- C. Chlorine
- D. Radon

Q20 General Science

Oxidation state of an atom represents:

- A. apparent charge in compound
- B. number of electrons lost
- C. number of electrons gained
- D. its vacancies



Q21 General Science

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:

- A. Tissue
- B. Muscle
- C. Phloem
- D. Fibres(bast)

Q22 General Science

_____ is present in the lining of kidney tubules.

- A. Squamous Epithelium
- B. Cuboidal Epithelium
- C. Columnar Epithelium
- D. Parenchyma

Q23 General Science

_____ is not essential for photosynthesis.

- A. CO₂
- B. O₂
- C. Sunlight
- D. Chlorophyll

Q24 General Science

_____ carries sperms out of the testes.

- A. Ureters
- B. Urethra
- C. Vas deferens
- D. Oviduct

The cavity of graafian follicle is called:

- A. amniotic cavity
- B. antrum
- C. liquor folliculi
- D. discus proligerous



General Science

25 Questions • Answer Key

Q1 General Science

An object travels 15 m in 8 s and then another 25 m in 12 s. What is the average speed of the object?

A. 4 ms^1 B. 4 ms^{-1} C. 2 ms^{-1} ✓D. 2 ms^1

Q2 General Science

Find the odd one out.

A. Negative acceleration

B. Deceleration

C. Positive acceleration ✓

D. Retardation

Q3 General Science

_____ is the change in velocity per unit time.

A. Momentum

B. Acceleration ✓

C. Inertia

D. Force

Q4 General Science

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 _____.

A. momentum

B. force

C. displacement

D. inertia ✓



Q5 General Science

A certain household has consumed 245 units of energy during a month. How much energy is this in joules?

- A. 882×10^8 joules
- B. 245×10^6 joules
- C. 882×10^6 joules
- D. 918×10^{-8} joules



Q6 General Science

Which one of the following has only magnitude and no direction?

- A. Force
- B. Momentum
- C. Velocity
- D. Work



Q7 General Science

5.4 kwh = ?

- 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.

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q8 General Science

The line that joins the centre of curvature and the pole of a curved surface is called:

- A. focal point
- B. focus
- C. principal axis
- D. radius of curvature



Q9 General Science

A source produces 10 crests and 10 troughs in 0.1 second. What is the frequency of the wave produced?

- A. 108 Hz
- B. 120 Hz
- C. 100 Hz
- D. 150 Hz



Q10 General Science

Select the odd material out of the following.

- A. Rubber
- B. Diamond
all candidates.
- C. Glass
- D. Aluminium

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q11 General Science

It is the product of power and time; its unit is W-s and KWH. What is it called?

- A. Potential energy
- B. Power
- C. Electrical energy
- D. Electric conductivity



Q12 General Science

The chemical formula of Plaster of Paris is:

- 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. $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$



Q13 General Science

Which elements combine to form Ammonia?

- A. Hydrogen, Oxygen and Nitrogen
- B. Hydrogen and Nitrogen
- C. Hydrogen and Oxygen
- D. Hydrogen, Chlorine and Nitrogen

Q14 General Science

The molecular mass of nitrogen is 28. Its atomic mass is 14. The atomicity of nitrogen is _____.

- A. 28
- B. 14
- C. 2
- D. 1

Q15 General Science

Lemon juice has a pH of.

- A. 2
- B. 6
- C. 8
- D. 12

Q16 General Science

Which one of the below is not a property of acids?

- A. Their presence turns blue litmus red
- B. They act as electrolyte in solution
- C. They corrode metal surfaces slowly
- D. Their presence turns red litmus blue



Q17 General Science

A crucible used in laboratories to heat solids at a high temperature is made of:

- A. Copper
- B. Silicon
- C. Graphite
- D. Aluminium



Q18 General Science

Which of the following is NOT TRUE about non-metals?

- 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.

Dropped by RRB: discrepancy found in question/answer, ignored for all candidates (no answer key).

Q19 General Science

Which of these is NOT an alkaline earth metal?

- A. Beryllium
- B. Magnesium
- C. Calcium
- D. Potassium



Q20 General Science

Name the Group and Period of Modern Periodic Table in which Carbon is placed?

- A. Third period and thirteenth group
- B. Seventh period and fourteenth group
- C. Second period and fourteenth group
- D. Fifth period and Fifteenth group



Q21 General Science

Human insulin is being commercially produced from a transgenic species of:

- A. *Escherichia* ✓
- B. *Saccharomyces*
- C. *Rhizobium*
- D. *Mycobacterium*

Q22 General Science

The function of nervous tissues is to conduct messages:

- 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

Q23 General Science

Involuntary actions including blood pressure, salivation and vomiting are controlled by the _____.

- A. Spinal cord
- B. Cerebellum
- C. Medulla ✓
- D. Pons

Q24 General Science

Which of the following plants belongs to the category of Pteridophyta?

- A. Ulothrix
- B. Cladophora
- C. Marsilea ✓
- D. Chara



Which of the following hormones is secreted by the pituitary to start the ovulation process?

- A. Thyroid
- B. Luteinising hormone
- C. Oestrogen
- D. Progesterone



General Science

24 Questions · Answer Key

Q1 General Science HINDI - no English version saved

जब 100 N का एक बल 50 kg द्रव्यमान की एक वस्तु पर लगाया जाता है तो उत्पन्न होने वाले त्वरण की गणना कीजिए।

A. 0.2ms^{-2}

B. 0.2ms^2

C. 2ms^{-2}



D. 2ms^2

Q2 General Science HINDI - no English version saved

निम्न में से किस स्थान पर गुरुत्वीय त्वरण शून्य होता है?

A. भूमध्य रेखा पर

B. ध्रुवों पर

C. समुद्र स्तर पर

D. पृथ्वी के केंद्र पर



Q3 General Science

'g' (Acceleration due to gravity) = ?

A. GR^2/M

B. R^2M/G

C. G/MR^2

D. GM/R^2



Q4 General Science

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} .

- A. 12.9 ms
- B. 14.9 ms^{-1}
- C. 13.9 ms^{-1} ✓
- D. 15.9 ms^{-1}

Q5 General Science HINDI - no English version saved

उस भौतिक मात्रा का नाम बताएँ, जो बल और वेग के गुणनफल के बराबर है।

- A. कार्य
- B. ऊर्जा
- C. शक्ति ✓
- D. त्वरण

Q6 General Science

If a plane flies a distance of 4000 m with work done of 20000 J, then the force applied is:

- A. 50 N
- B. 0.2 N
- C. 5 N ✓
- D. 10 N

Q7 General Science HINDI - no English version saved

2 kg का एक ब्लॉक, 4 m/s की गति से समानांतर सतह पर स्लाइड होता है। यह एक बिना दबे हुए स्प्रिंग पर गिरता है तथा उसे तब तक दबाता है जब तक वह ब्लॉक पूरी तरह गतिहीन न हो जाए। गतिज घर्षण की मात्रा 15N है तथा स्प्रिंग स्थिरांक 10,000 N/m है। स्प्रिंग _____ से दबता है।

- A. 8.5 m
- B. 8.5 cm
- C. 5.5 m
- D. 5.5 cm ✓



Q8 General Science

What is the relation between frequency and time period?

A. $T = 1 \times v$

B. $T = 1/v$ ✓

C. $T = v$

D. $T = 1+v$

Q9 General Science

The relation between wave velocity 'v', frequency 'f', and wave length 'λ' is _____.

A. $v = f/\lambda$

B. $v = f\lambda$ ✓

C. $v = \lambda/f$

D. $v = 1/f\lambda$

Q10 General Science HINDI - no English version saved

9Ω, 4Ω और 12Ω मान के तीन प्रतिरोध समांतर में जुड़े हैं। परिपथ का समतुल्य प्रतिरोध क्या होगा?

A. 1.9

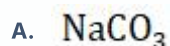
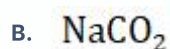
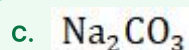
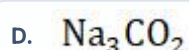
B. 2.2 ✓

C. 2.6

D. 0.8

Q11 General Science

The chemical formula of Sodium Carbonate is _____.



Q12 General Science

If the nucleus of an atom of an element contains 11 protons and 12 neutrons, then the mass number of the element is:

- A. 35
- B. 11
- C. 12
- D. 23



Q13 General Science

All samples of carbon dioxide contain carbon and oxygen in the mass ratio of 3 : 8. This is in agreement with the Law of _____.

- A. Conservation of Mass
- B. Constant Proportion
- C. Conservation of Energy
- D. Reciprocal proportion



Q14 General Science

What are the products formed when Ferrous Sulphate crystals are heated in a test tube?

- 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



Q15 General Science HINDI - no English version saved

pH स्केल किसी विलयन में हाइड्रोजन आयन सांद्रता को मापता है। इसमें p का क्या अर्थ है?

- A. Potential (पोटेंसियल), जिसका जर्मन में अर्थ आराम है।
- B. Potenz (पोटेंज़), जिसका जर्मन में अर्थ शक्ति (पावर) है।
- C. Power (शक्ति)
- D. Potency (पोटेंसी), जिसका जर्मन में अर्थ शक्ति है।



Q16 General Science

Gold is mixed with copper to:

- A. make gold hard. ✓
- B. make gold soft.
- C. make gold more yellowish.
- D. give gold luster.

Q17 General Science HINDI - no English version saved

निम्न में से कौन सी धातु वायु के साथ अभिक्रिया नहीं करती?

- A. रजत, प्लेटिनम
- B. स्वर्ण, प्लेटिनम ✓
- C. पोटैशियम, निकल
- D. स्वर्ण, रजत

Q18 General Science HINDI - no English version saved

हीलियम और आर्गन में क्या समानता है?

- A. दोनों तत्व द्रव धातु हैं।
- B. दोनों धातुओं का प्रयोग गुब्बारों में किया जाता है।
- C. दोनों का बाह्यतम कोश पूर्णतः भरा होता है। ✓
- D. दोनों में उच्च विसरण दर होती है।

Q19 General Science HINDI - no English version saved

आधुनिक आवर्त सारणी के साथ किसका नाम जुड़ा हुआ है?

- A. एम .जे .मोसले ✓
- B. मेंडलीव
- C. न्यूलैंड
- D. हुंड



Q20 General Science

Cells of the collenchyma tissue are thickened at the corners with _____.

- A. lignin and cutin
- B. suberin and cellulose
- C. cellulose and pectin
- D. pectin and chitin



Q21 General Science HINDI - no English version saved

_____ ऊतक की कोशिकाएँ अलग-अलग प्रकार के स्थायी ऊतक बनाने के लिए पृथक होती हैं।

- A. दृढ़ ऊतक
- B. मृदूतक
- C. विभज्योतक
- D. स्थूलकोण ऊतक



Q22 General Science HINDI - no English version saved

निम्न में से कौन जिम्नोस्पर्म है?

- A. आम
- B. चीड़
- C. काई (मॉस)
- D. फर्न



Q23 General Science

_____ propagates through stem.

- A. Bryophyllum
- B. Bryophyla
- C. Rose
- D. Tamarind



_____ फाइटोक्रोम का एक प्रशांत रूप है।

A. P630

B. P660



C. P730

D. P760

