रेलवे भर्ती बोर्ड | RAILWAY RECRUITMENT BOARD

सीईएन ०१/२०२६ सहायक लोको पायलट (एएलपी) के पद पर भर्ती

CEN 01/2026 Recruitment of Assistant Loco Pilot (ALP)

Test Date	05/11/2026
Test Time	12:30 PM - 1:30 PM
Subject	RRB ALP 2026 CBT 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.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **RRB ALP**

Q.1 **In this question, a group of number/symbol is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then codes for the respective Number/Symbol are to be followed directly as given in the table.**

Number/symbol + 4 9 5 8 7 2 @ % $

Code E R G P Q A B K T V

Conditions –
(i) If the first element is a symbol and the last element is a number, interchange the codes of the first and the last elements.
(ii) If the second and third elements are odd numbers, code the third element as the code of the second element.
(iii) If the fourth element is a symbol and the fifth element is a number, code both elements as ©.

What is the code for the following group of number-symbols?
+ 4 9 5 8

Ans
✗ A. ERGPK
✓ B. QRGPE
✗ C. ERGPQ
✗ D. PRGPQ

Q.2 ପ୍ରଦତ୍ତ ଅନୁକ୍ରମକୁ ତର୍କସିଦ୍ଧ ଭାବେ ସଂପୂର୍ଣ୍ଣ କରିବା ପାଇଁ ନିମ୍ନଲିଖିତ ଅକ୍ଷର-ସଂଖ୍ୟା ପୁଞ୍ଜ ମଧ୍ୟରୁ କେଉଁଟିକୁ ପ୍ରଶ୍ନଚିହ୍ନ (?) ସ୍ଥାନରେ ସ୍ଥାପିତ କରାଯାଇପାରିବ?

MGG 9 KIJ -4 IKM -17 GMP -30 ?

Ans
✗ A. JIU -34
✗ B. GYT -41
✓ C. EOS -43
✗ D. KJU -44

Q.3 ଯଦି 'A' ର ଅର୍ଥ '÷', 'B' ର ଅର୍ଥ '×', 'C' ର ଅର୍ଥ '+' ଏବଂ 'D' ର ଅର୍ଥ '−' ହୁଏ, ତେବେ ନିମ୍ନଲିଖିତ ସମୀକରଣରେ ପ୍ରଶ୍ନ ଚିହ୍ନ '?' ସ୍ଥାନରେ କ'ଣ ଆସିବ?
4 B 5 D 44 A 4 C 7 = ?

Ans
✗ A. 18
✗ B. 13
✗ C. 21
✓ D. 16

Q.4 **An ant travels toward a food source. It covers 40% of the total distance at a speed of 60 feet/hour, and the remaining 60% at a speed of 90 feet/hour. What is the average speed of the ant for the entire journey?**

Ans

✔ A. 75 feet/hour

✘ B. 76 feet/hour

✘ C. 77 feet/hour

✘ D. 74 feet/hour

Q.5 ଯଦି 'A' ର ଅର୍ଥ '÷', 'B' ର ଅର୍ଥ '×', 'C' ର ଅର୍ଥ '+' ଏବଂ 'D' ର ଅର୍ଥ '−' ହୁଏ, ତେବେ ନିମ୍ନଲିଖିତ ସମୀକରଣରେ ପ୍ରଶ୍ନଚିହ୍ନ '?' ସ୍ଥାନରେ କ'ଣ ହେବ?

7 B 4 D 12 A 6 C 12 = ?

Ans

✔ A. 38

✘ B. 36

✘ C. 40

✘ D. 42

Q.6 **Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. P has an exam on Friday. Only one person has an exam between P and T. R has an exam on the day immediately before Q but not on a Monday. U has an exam on the day immediately after S but not on a Sunday. V has an exam on the day immediately after T. How many people have exams before T?**

Ans

✘ A. None

✘ B. One

✘ C. Three

✔ D. Two

Q.7 **ABCD is a square. M is an external point towards side AB such that triangle MAB is an equilateral triangle. What is the value of ∠AMD + $\frac{1}{3}$∠MCD?**

Ans

✘ A. 60^o

✔ B. 40^o

✘ C. 45^o

✘ D. 50^o

Q.8 **A tap fills a tank in 6 hours. Another tap empties the full tank in 15 hours. How long (in hours) will it take to fill half of the tank, if the tank is empty initially and both the taps are opened together?**

Ans

✔ A. 5

✘ B. 15

✘ C. 30

✘ D. 10

Q.9 **In this question, a group of number/symbol is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then codes for the respective Number/Symbol are to be followed directly as given in the table.**

Number/symbol	2	@	9	5	$	&	3	%	7	#	4	8	1	6
Code	T	F	A	J	L	E	W	Q	P	D	B	U	R	S

Conditions –
(i) If the first element is a symbol and the last element is a number, interchange the codes of the first and last elements.
(ii) If the second and third elements are odd numbers, the third element is coded as the code of the second element.
(iii) If the fourth element is a symbol, code the fourth element as ©.

What is the code for the following group of number-symbols?
8952$

Ans
- ✗ A. UAATQ
- ✓ B. UAATL
- ✗ C. UAJTL
- ✗ D. UAJAL

Q.10 **A student lifts a 20 kg box to a shelf 2 meters high in 5 seconds. What is the power developed by the student? (Take g = 10 m/s^2)**

Ans
- ✗ A. 100 watts
- ✗ B. 200 watts
- ✗ C. 40 watts
- ✓ D. 80 watts

Q.11 **A shop offers a 'Buy One Get Two Free' scheme on a shirt priced at ₹900 each. What is the effective price per shirt if a customer buys three shirts under this offer?**

Ans
- ✗ A. ₹900
- ✗ B. ₹450
- ✗ C. ₹600
- ✓ D. ₹300

Q.12 ଇଂରାଜୀ ବର୍ଣ୍ଣମାଳା କ୍ରମ ଆଧାରରେ **MLMN** ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ଉପାୟରେ **POPQ** ସହ ସମ୍ପର୍କିତ । **JIJK** ସେହି ସମାନ ଉପାୟରେ **MLMN** ସହ ସମ୍ପର୍କିତ । ସମାନ ତର୍କ ଅନୁସରଣ କରି ନିମ୍ନଲିଖିତ କେଉଁଟି ସହ **WVWX** ସମ୍ପର୍କିତ?

Ans
- ✗ A. ZZYZ
- ✗ B. ZYYA
- ✗ C. ZXYA
- ✓ D. ZYZA

Q.13 **Each of N, Q, K, L, T, P and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only two people have exams after N. Only three people have exams between L and N. T has the exam immediately after P but before N. Q does not have the exam on Sunday. V does not have the exam after P. Who has the exam immediately after Q?**

Ans
- ✗ A. P
- ✗ B. N
- ✓ C. K
- ✗ D. V

Q.14 **A shopkeeper bought six identical mobile phones for ₹18,000. He sold two of them for ₹18,000. What was his gain percentage on the two mobile phones sold?**

Ans
- ✓ A. 200%
- ✗ B. 100%
- ✗ C. 150%
- ✗ D. 250%

black book

Q.15 **Sourav starts from Point A and drives 40 km towards the South. He then takes a right turn, drives 58 km, then turns right and drives 69 km. He then takes a right turn and drives 79 km. He takes a final right turn, drives 29 km, and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only, unless specified.)**

Ans

✗ A. 24 km to the east

✓ B. 21 km to the west

✗ C. 20 km to the west

✗ D. 23 km to the east

Q.16 **Which of the following statements correctly differentiates audible, infrasonic, and ultrasonic sounds?**

Ans

✓ A. Audible sounds lie between 20 Hz and 20,000 Hz, infrasonic below 20 Hz, and ultrasonic above 20,000 Hz.

✗ B. Audible sounds have frequencies below 20 Hz, infrasonic between 20 Hz and 20,000 Hz, and ultrasonic above 20,000 Hz.

✗ C. Audible sounds lie between 20 Hz and 20,000 Hz, infrasonic above 20,000 Hz, and ultrasonic below 20 Hz.

✗ D. Audible, infrasonic, and ultrasonic sounds all have the same frequency range but differ in loudness.

Q.17 **In this question, a group of number/symbol is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then codes for the respective Number/Symbol are to be followed directly as given in the table.**

Number/symbol	7	!	+	*	@	%	#	4	3	6
Code	U	Y	Q	G	E	O	Z	H	C	T

Conditions –
(i) If the first element is a symbol and the last element is a number, interchange the codes of the first and the last elements.
(ii) If the second and third elements are odd numbers, code the third element as the code of the second element.
(iii) If the fourth element is a symbol and the fifth element is a number, code both elements as ©.

What is the code for the following group of number-symbols?
7 ! + * @

Ans

✗ A. UYOGE

✗ B. OYQGE

✓ C. UYQGE

✗ D. UZQGE

Q.18 **ପ୍ରଦତ୍ତ ଅନୁକ୍ରମରେ ? ସ୍ଥାନରେ କ'ଣ ଆସିବ?**
216 176 140 108 80 ?

Ans

✗ A. 61

✗ B. 62

✗ C. 58

✓ D. 56

Q.19 **Each letter in the word KNIFERS is arranged in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is fourth from the left and the one which is first from the right in the new letter cluster thus formed?**

Ans

✓ A. 7

✗ B. 6

✗ C. 9

✗ D. 3

Q.20 Seven people, E, F, G, H, W, X and Y, are sitting around a circular table, facing the center of the table. Y sits to the immediate right of W. H sits to the immediate left of E. F sits second to the right of E. G sits third to the left of Y. Who sits second to the right of X?

Ans

✗ A. F

✗ B. G

✓ C. E

✗ D. H

Q.21 ନିମ୍ନରେ ଦିଆଯାଇଥିବା ପାଞ୍ଚଟି ତିନି ଅଙ୍କ ବିଶିଷ୍ଟ ସଂଖ୍ୟା ଉପରେ ଏହି ପ୍ରଶ୍ନ ଆଧାରିତ ।
842 974 121 352 465
(ଉଦାହରଣ: 697 – ପ୍ରଥମ ଅଙ୍କ = 6, ଦ୍ୱିତୀୟ ଅଙ୍କ = 9 ଏବଂ ତୃତୀୟ ଅଙ୍କ = 7)
ଯଦି ବୃହତ୍ତମ ସଂଖ୍ୟାର ଦ୍ୱିତୀୟ ଅଙ୍କକୁ କ୍ଷୁଦ୍ରତମ ସଂଖ୍ୟାର ତୃତୀୟ ଅଙ୍କ ସହ ଯୋଗ କଲେ ଯୋଗଫଳ କେତେ ହେବ?

Ans

✗ A. 5

✗ B. 10

✓ C. 8

✗ D. 6

Q.22 What does the ovary of a flower transform into after fertilisation is complete?

Ans

✗ A. Seedcoat

✗ B. Seed

✗ C. Zygote

✓ D. Fruit

Q.23 Vivek starts from Point A and drives 8 km towards north. He then takes a left turn, drives 15 km, turns left and drives 10 km. He then takes a left turn and drives 18 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified.)

Ans

✗ A. 6 km to the west

✓ B. 3 km to the west

✗ C. 6 km to the east

✗ D. 8 km to the east

Q.24 24 is related to 140 following a certain logic. Following the same logic, 17 is related to 91. To which of the following is 26 related, following the same logic?
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans

✗ A. 153

✓ B. 154

✗ C. 160

✗ D. 148

Q.25 A,B,C,D and E have scored different marks in an exam. E scored less than only 1 person. A scored more than B but less than D. B did not score the lowest. Who scored the lowest?

Ans

✗ A. A

✗ B. E

✓ C. C

✗ D. B

adda247

Q.26 ପ୍ରଦତ୍ତ ଅନୁକ୍ରମରେ ପ୍ରଶ୍ନଚିହ୍ନ (?) ସ୍ଥାନରେ କ'ଣ ଆସିବ?
4 16 29 43 58 ?

Ans
- ✗ A. 77
- ✓ B. 74
- ✗ C. 70
- ✗ D. 75

Q.27 ଯଦି '+' ଏବଂ '−' କୁ ପରସ୍ପର ମଧ୍ୟରେ ଅଦଳବଦଳ କରାଯାଏ ଏବଂ '×' ଏବଂ '÷' କୁ ପରସ୍ପର ମଧ୍ୟରେ ଅଦଳବଦଳ କରାଯାଏ, ତେବେ ନିମ୍ନଲିଖିତ ସମୀକରଣରେ ପ୍ରଶ୍ନଚିହ୍ନ (?) ସ୍ଥାନରେ କ'ଣ ଆସିବ?

333 − 84 × 4 ÷ 2 + 308 = ?

Ans
- ✗ A. 65
- ✗ B. 62
- ✓ C. 67
- ✗ D. 60

Q.28 ଯଦି 'A' ର ଅର୍ଥ '÷', 'B' ର ଅର୍ଥ '×', 'C' ର ଅର୍ଥ '+' ଏବଂ 'D' ର ଅର୍ଥ '−' ହୁଏ, ତେବେ ନିମ୍ନଲିଖିତ ସମୀକରଣରେ ପ୍ରଶ୍ନ ଚିହ୍ନ (?) ସ୍ଥାନରେ କ'ଣ ଆସିବ?
48 A 3 C 7 B 2 D 18 = ?

Ans
- ✗ A. 10
- ✓ B. 12
- ✗ C. 7
- ✗ D. 4

Q.29 ପ୍ରଦତ୍ତ ଅନୁକ୍ରମକୁ ତର୍କସିଦ୍ଧ ଭାବେ ସଂପୂର୍ଣ୍ଣ କରିବା ପାଇଁ ନିମ୍ନଲିଖିତ କେଉଁ ଅକ୍ଷର-ସଂଖ୍ୟା ଯୁଞ୍ଜ ପ୍ରଶ୍ନଚିହ୍ନ (?) କୁ ପ୍ରତିସ୍ଥାପିତ କରିପାରିବ?
YUW 12, TPR 18, OKM 24, JFH 30, ?

Ans
- ✗ A. EAD 34
- ✗ B. FAC 36
- ✗ C. EBD 34
- ✓ D. EAC 36

Q.30 **A wildlife reserve's forest cover increased by 5% annually for two years and then decreased by 10% in the third year due to a forest fire. If the present forest area is 99,225 hectares, what was the original forest area (in hectares) before these changes?**

Ans
- ✗ A. 99,000
- ✗ B. 99,750
- ✗ C. 1,10,250
- ✓ D. 1,00,000

Q.31 **In △ABC, BD ⊥ AC at D and ∠DBC = 53°. E is a point on BC such that ∠CAE = 58°. What is the measure of ∠AEB?**

Ans
- ✗ A. 109°
- ✗ B. 87°
- ✗ C. 81°
- ✓ D. 95°

Q.32 **A worker uses a pulley system to lift a load vertically upwards with a constant speed. If the effort applied is 100 N and the load is 200 N, which statement best describes the system?**

Ans
- ✗ A. The effort is greater than the load
- ✗ B. The system has a mechanical advantage of one
- ✓ C. The system has a mechanical advantage of two
- ✗ D. The system is an ideal machine

Black book

Q.33 A ଓ B କୋଣ ଦ୍ୱୟ ଯେତେବେଳେ $0<B<A<\frac{\pi}{2}$ ଅଟେ । ଯଦି $\tan(A+B)=\sqrt{3}$ ଏବଂ $\cos(A-B)=\frac{\sqrt{3}}{2}$ ହୁଏ , ତେବେ $4\cos^2 A + 9\tan^2 2B$ ର ମୂଲ୍ୟ ନିର୍ଣ୍ଣୟ କର ।

Ans
- ✗ A. 7.5
- ✗ B. 8.2
- ✓ C. 5
- ✗ D. 6

Q.34 ଶବ୍ଦ PIGEON ର ପ୍ରତ୍ୟେକ ଅକ୍ଷରକୁ ଇଂରାଜୀ ବର୍ଣ୍ଣମାଳା କ୍ରମରେ ସଜାଇଲେ, କେତୋଟି ଅକ୍ଷରର ସ୍ଥାନ ଅପରିବର୍ତ୍ତିତ ରହିବ?

Ans
- ✓ A. ଏକ
- ✗ B. କିଛି ନୁହେଁ
- ✗ C. ଦୁଇ
- ✗ D. ତିନି

Q.35 ସାତଜଣ ଲୋକ A, B, C, I, J, K ଓ L ଗୋଟିଏ ଧାଡିରେ ଉତ୍ତର ଦିଗକୁ ମୁହଁକରି ବସିଛନ୍ତି । J ଙ୍କ ବାମ ପାର୍ଶ୍ୱରେ କେବଳ B ବସିଛନ୍ତି । B ଓ A ଙ୍କ ମଧ୍ୟରେ କେବଳ ଚାରିଜଣ ଲୋକ ବସିଛନ୍ତି । I ଓ K ଙ୍କ ମଧ୍ୟରେ କେବଳ C ବସିଛନ୍ତି ଏବଂ A ଙ୍କ ନିକଟତମ ପଡ଼ୋଶୀ I ନୁହଁନ୍ତି । ଧାଡିର ତାହାଣ ପ୍ରାନ୍ତରେ କିଏ ବସିଛନ୍ତି?

Ans
- ✗ A. A
- ✓ B. L
- ✗ C. I
- ✗ D. C

Q.36 ନିମ୍ନରେ ଦିଆଯାଇଥିବା ପାଞ୍ଚଟି, ତିନି ଅଙ୍କ ବିଶିଷ୍ଟ ସଂଖ୍ୟା ଉପରେ ଏହି ପ୍ରଶ୍ନ ଆଧାରିତ ।
(ବାମ) 147 459 582 456 193 (ତାହାଣ)
(ଉଦାହରଣ- 697 – ପ୍ରଥମ ଅଙ୍କ = 6, ଦ୍ୱିତୀୟ ଅଙ୍କ = 9 ଓ ତୃତୀୟ ଅଙ୍କ = 7)
ଟିପ୍ପଣୀ- ସମସ୍ତ ପ୍ରକ୍ରିୟା ବାମରୁ ତାହାଣକୁ କରାଯିବ ।
ଯଦି ବୃହତ୍ତମ ସଂଖ୍ୟାର ତୃତୀୟ ଅଙ୍କକୁ କ୍ଷୁଦ୍ରତମ ସଂଖ୍ୟାର ଦ୍ୱିତୀୟ ଅଙ୍କ ସହିତ ଯୋଗ କରାଯାଏ, ତେବେ ଯୋଗଫଳ କେତେ ହେବ?

Ans
- ✗ A. 8
- ✗ B. 4
- ✓ C. 6
- ✗ D. 2

Q.37 8 ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ତର୍କ ଅନୁସରଣ କରି 40 ସହ ସମ୍ପର୍କିତ । 12 ସେହି ସମାନ ତର୍କ ଅନୁସରଣ କରି 60 ସହ ସମ୍ପର୍କିତ । ସମାନ ତର୍କ ଅନୁସରଣ କରି ଦିଆଯାଇଥିବା କେଉଁ ବିକଳ୍ପଟି ସହ 26 ସମ୍ପର୍କିତ?
(ଦ୍ରଷ୍ଟବ୍ୟ: ସଂଖ୍ୟାଗୁଡିକୁ ସେଗୁଡିକର ଗଠନକାରୀ ଅଙ୍କଗୁଡିକରେ ନଭାଙ୍ଗି ପୂର୍ଣ୍ଣସଂଖ୍ୟାଗୁଡିକ ଉପରେ ଗାଣିତିକ ପ୍ରକ୍ରିୟାଗୁଡିକ ହେବ । ଉଦାହରଣ ସ୍ୱରୂପ 13- ମିଶାଣ/ଫେଡାଣ/ଗୁଣନ ଇତ୍ୟାଦି ଭଳି ଗାଣିତିକ ପ୍ରକ୍ରିୟାଗୁଡିକ 13 ଉପରେ ହେବ । 13 କୁ 1 ଓ 3 ରେ ଭାଙ୍ଗି 1 ଓ 3 ଉପରେ ଗାଣିତିକ ପ୍ରକ୍ରିୟା କରିବା ପାଇଁ ଅନୁମତି ନାହିଁ ।)

Ans
- ✗ A. 140
- ✓ B. 130
- ✗ C. 120
- ✗ D. 150

Q.38 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) A F I E G M L A X F I E Q R T J I L U E Y H (Right)
How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

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

Black book

Q.39 ଶବ୍ଦ **SLACKEN** ର ପ୍ରତ୍ୟେକ ଅକ୍ଷରକୁ ଇଂରାଜୀ ବର୍ଣ୍ଣମାଳା କ୍ରମରେ ସଜାଇଲେ, କେତୋଟି ଅକ୍ଷରର ସ୍ଥାନ ଅପରିବର୍ତ୍ତିତ ରହିବ?

Ans

✗ A. ଦୁଇ

✗ B. ତିନି

✓ C. କିଛି ନୁହେଁ

✗ D. ଏକ

Q.40 **Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.**
(Left) P W U T K B R E T W R O N E L A U J J U T L (Right)
How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

Ans

✗ A. 6

✓ B. 5

✗ C. 7

✗ D. 4

Q.41 ଗୋଟିଏ ଖେଳଣା ₹180 ରେ ବିକ୍ରି ହୁଏ, ଯାହା ଦ୍ୱାରା 20% ଲାଭ ମିଳେ। ଏହାର କ୍ରୟ ମୂଲ୍ୟ କେତେ ଥିଲା?

Ans

✗ A. ₹160

✗ B. ₹140

✗ C. ₹170

✓ D. ₹150

Q.42 **This question is based on the following words.**

SEA CAZ LOT HAT

In each of the words, each vowel is changed to the second letter following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans

✗ A. Three

✗ B. Two

✓ C. Four

✗ D. One

Q.43 ନିମ୍ନରେ ଦିଆଯାଇଥିବା ଦୁଇଟି ଯୋଡ଼ି ସେଟ ଯେଉଁ ଢାଞ୍ଚା ଅନୁସରଣ କରନ୍ତି, ସେହି ସମାନ ଢାଞ୍ଚା ଅନୁସରଣ କରୁଥିବା ଯୋଡି ଚୟନ କରନ୍ତୁ । ଉଭୟ ଯୋଡି ସମାନ ଢାଞ୍ଚା ଅନୁସରଣ କରନ୍ତି ।

UST : WPV
YMX : AJZ

Ans

✗ A. HAM : KXP

✗ B. TKY : WGB

✗ C. AYM : DWP

✓ D. CGB : EDD

Q.44 ଇଂରାଜୀ ବର୍ଣ୍ଣମାଳା କ୍ରମ ଆଧାରରେ ନିମ୍ନଲିଖିତ ଚାରିଟି ଅକ୍ଷର ପୁଞ୍ଜ ଯୋଡ଼ି ମଧ୍ୟରୁ ତିନୋଟି ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ଉପାୟରେ ସଦୃଶ ଏବଂ ଏହିପରି ଏକ ଗୋଷ୍ଠୀ ଗଠନ କରନ୍ତି । କେଉଁଟି ସେହି ଗୋଷ୍ଠୀର ଅନ୍ତର୍ଭୁକ୍ତ ନୁହେଁ?
(ଦ୍ରଷ୍ଟବ୍ୟ: ଅସମଟି ବ୍ୟଞ୍ଜନ/ସ୍ୱରବର୍ଣ୍ଣ ସଂଖ୍ୟା କିମ୍ବା ଅକ୍ଷର ପୁଞ୍ଜରେ ସେଗୁଡିକର ସ୍ଥିତି ଉପରେ ଆଧାରିତ ନୁହେଁ)

Ans

✗ A. MJ–LI

✗ B. JG–IF

✓ C. WT–UU

✗ D. FC–EB

Q.45 ଇଂରାଜୀ ବର୍ଣ୍ଣମାଳା କ୍ରମ ଆଧାରରେ ନିମ୍ନଲିଖିତ ଚାରିଟି ଅକ୍ଷର ପୁଞ୍ଜ ମଧ୍ୟରୁ ତିନୋଟି ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ଉପାୟରେ ସଦୃଶ ଏବଂ ଏହିପରି ଏକ ଗୋଷ୍ଠୀ ଗଠନ କରନ୍ତି । କେଉଁ ଅକ୍ଷର ପୁଞ୍ଜଟି ସେହି ଗୋଷ୍ଠୀର ଅନ୍ତର୍ଭୁକ୍ତ ନୁହେଁ?
(ଦ୍ରଷ୍ଟବ୍ୟ: ଅସମଟି ବ୍ୟଞ୍ଜନ/ସ୍ୱରବର୍ଣ୍ଣ ସଂଖ୍ୟା କିମ୍ବା ଅକ୍ଷର ପୁଞ୍ଜରେ ସେଗୁଡିକର ସ୍ଥିତି ଉପରେ ଆଧାରିତ ନୁହେଁ ।)

Ans
- ✔ A. XSD
- ✘ B. SNI
- ✘ C. EZU
- ✘ D. RMH

Q.46 ତଳେ ସଂଖ୍ୟାର ଦୁଇଟି ସେଟ୍ ଦିଆଯାଇଛି । ପ୍ରତ୍ୟେକ ସଂଖ୍ୟା ସେଟରେ, ପ୍ରଥମ ସଂଖ୍ୟା ଉପରେ ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ଗାଣିତିକ କ୍ରିୟା ପ୍ରୟୋଗ କରି ଦ୍ୱିତୀୟ ସଂଖ୍ୟା ପ୍ରାପ୍ତ ହୋଇଥାଏ । ସେହିପରି, ଦ୍ୱିତୀୟ ସଂଖ୍ୟା ଉପରେ ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ଗାଣିତିକ କ୍ରିୟା ପ୍ରୟୋଗ କରି ତୃତୀୟ ସଂଖ୍ୟା ପ୍ରାପ୍ତ ହୋଇଥାଏ ଏବଂ ଏହିପରି ଜାରି ରହେ । ଦିଆଯାଇଥିବା ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ପ୍ରଶ୍ନରେ ଥିବା ସମାନ କ୍ରିୟାର ସେଟକୁ ଅନୁସରଣ କରେ, ତାହା ନିର୍ଣ୍ଣୟ କର ?
(ଟିପ୍ପଣୀ - ଏକ ଦୁଇ/ତିନି-ଅଙ୍କ ବିଶିଷ୍ଟ ସଂଖ୍ୟାକୁ କ୍ରିୟା ପାଇଁ ପୃଥକ ଅଙ୍କରେ ଭଙ୍ଗା ଯାଇପାରିବ ନାହିଁ, ଯଥା ଯଦି 37 ପରେ 10 ଅଛି, ତେବେ କ୍ରିୟା 3+7 ହୋଇପାରିବ ନାହିଁ କାରଣ ଏକ ଦୁଇ-ଅଙ୍କ ବିଶିଷ୍ଟ ସଂଖ୍ୟାକୁ ପୃଥକ ଅଙ୍କରେ ଭଙ ଯାଇପାରିବ ନାହିଁ।)

17 - 34 - 170 - 180
43 - 86 - 430 - 440

Ans
- ✘ A. 33 - 66 - 528 - 538
- ✘ B. 41 - 123 - 738 - 748
- ✘ C. 38 - 43 - 258 - 269
- ✔ D. 40 - 80 - 400 - 410

Q.47 **Shivraj is three times as old as his son, and his daughter is 3 years younger than the son. If the sum of the ages of these three people 3 years ago was 103 years, then Shivraj's present age (in years) is:**

Ans
- ✘ A. 68
- ✔ B. 69
- ✘ C. 61
- ✘ D. 55

Q.48 $\sec A + \sin A(1 + \tan A) + \cos A(1 + \cot A) - \sqrt{1 + \cot^2 A} + 1$ ର ମୂଲ୍ୟ ନିର୍ଣ୍ଣୟ କର ।

Ans
- ✘ A. $\cos A + \operatorname{cosec} A$
- ✘ B. $2\sec^2 A - 1$
- ✔ C. $2\sec A + 1$
- ✘ D. $\sec A + \sin A$

Q.49 **The monthly salaries (in ₹) of five workers in a factory are 12,000, 15,000, 18,000, 17,000, and 16,000. What is the arithmetic mean of their salaries?**

Ans
- ✘ A. ₹17,200
- ✘ B. ₹18,000
- ✘ C. ₹16,500
- ✔ D. ₹15,600

Q.50 **Which of the following belongs to an aldehyde group?**

Ans
- ✘ A. CH_3CH_2OH
- ✔ B. CH_3CHO
- ✘ C. CH_3COOH
- ✘ D. HCOOH

Q.51 ଯଦି ଏକ ମୋବାଇଲ ଫୋନ ଏହାର ମୂଳ ମୂଲ୍ୟର 20% ବୃଦ୍ଧି ହେବା ପରେ ₹12,000 ରେ ବିକ୍ରି ହୁଏ, ତେବେ ଏହାର ମୂଳ ମୂଲ୍ୟ କେତେ ଥିଲା?

Ans

✗ A. ₹9,000

✗ B. ₹11,500

✗ C. ₹11,000

✓ D. ₹10,000

Q.52 ଯଦି A ର ଦରମା ଏବଂ B ର ଦରମାର ଅନୁପାତ 3:2 ହୁଏ ଏବଂ A ର ମାସିକ ଆୟ ₹18,000 ହୁଏ, ତେବେ B ର ମାସିକ ଦରମା କେତେ?

Ans

✗ A. ₹15,000

✗ B. ₹9,000

✗ C. ₹10,000

✓ D. ₹12,000

Q.53 **A and B started a business in which B invests ₹1,80,000. At the end of the year, the total profit is ₹95,000, and A's share in the profit is ₹20,000. Find A's investment.**

Ans

✗ A. ₹44,000

✗ B. ₹42,000

✓ C. ₹48,000

✗ D. ₹46,000

Q.54 ବାହୁଗୁଡିକର ଅନୁପାତ 7:12:14 ଏବଂ ପରିସୀମା 264 ମିଟର ଥିବା ଗୋଟିଏ ତ୍ରିଭୁଜର କ୍ଷେତ୍ରଫଳ ନିରୂପଣ କର ।

Ans

✗ A. $41\sqrt{2684}\ \text{m}^2$

✓ B. $48\sqrt{3135}\ \text{m}^2$

✗ C. $32\sqrt{1956}\ \text{m}^2$

✗ D. $24\sqrt{1005}\ \text{m}^2$

Q.55 **If ₹2000 is invested for 2 years at an annual compound interest rate of 5% compounded annually, what is the compound interest earned at the end of 2 years?**

Ans

✗ A. ₹200

✓ B. ₹205

✗ C. ₹190

✗ D. ₹210

Q.56 **Which of the following numbers is divisible by both 33 and 46?**

Ans

✓ A. 81972

✗ B. 83947

✗ C. 83018

✗ D. 82369

Q.57 ପ୍ରଦତ୍ତ ଅନୁକ୍ରମରେ '?' ସ୍ଥାନରେ କ'ଣ ହେବା ଆବଶ୍ୟକ?
4 9 15 22 30 ?

Ans

✗ A. 37

✗ B. 40

✗ C. 38

✓ D. 39

Q.58 **A person invested ₹56,000 at a rate of 12% per annum simple interest for 2 years. Find the amount (in ₹) he will receive after 2 years.**

Ans

✗ A. 68,440

✗ B. 66,440

✗ C. 67,440

✓ D. 69,440

Blackbook

Q.59 **In this question, a group of number/symbol is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then codes for the respective Number/Symbol are to be followed directly as given in the table.**

Number/symbol	7	8	#	!	6	%	$	@	3	9
Code	I	Z	G	N	R	K	S	X	W	M

Conditions –
(i) If the first element is a symbol and the last element is a number, interchange the codes of the first and the last elements.
(ii) If the second and third elements are odd numbers, code the third element as the code of the second element.
(iii) If the fourth element is a symbol and the fifth element is a number, code both elements as ©.

What is the code for the following group of number-symbols?
7 8 # ! 6

Ans
- ✗ A. IZGN©
- ✗ B. IZG©R
- ✗ C. ISGNR
- ✓ D. IZG©©

Q.60 **A household purchases 4 kg of oil at ₹80 per kg and 6 kg of oil at ₹60 per kg. What is the weighted average price per kg of the oil?**

Ans
- ✗ A. ₹78
- ✗ B. ₹58
- ✗ C. ₹88
- ✓ D. ₹68

Q.61 ସରଳ କର: $(14pq + 7q)^2 - (14pq - 7q)^2$

Ans
- ✗ A. $196p^2q^2$
- ✗ B. $392p^2q$
- ✓ C. $392pq^2$
- ✗ D. $196pq^2$

Q.62 ଗୋଟିଏ କାର୍‌ର ରେଡିଏଟର୍‌ରେ 71% ଆଣ୍ଟିଫ୍ରିଜ୍ ଥିବା ଏକ ଦ୍ରବଣ ରହିବା ଆବଶ୍ୟକ । ଜଣେ ଚାଳକଙ୍କ ପାଖରେ 27% ଆଣ୍ଟିଫ୍ରିଜ୍ ବିଶିଷ୍ଟ 15 ଲିଟର ଦ୍ରବଣ ଅଛି । 71% ଆଣ୍ଟିଫ୍ରିଜ୍ ଦ୍ରବଣ ପ୍ରସ୍ତୁତ କରିବା ପାଇଁ ସେ ଏହି ଦ୍ରବଣରେ କେତେ ଲିଟର (ଦଶମିକର 2ଟି ସ୍ଥାନ ପର୍ଯ୍ୟନ୍ତ) 92% ଆଣ୍ଟିଫ୍ରିଜ ବିଶିଷ୍ଟ ତରଳ ପଦାର୍ଥ ମିଶାଇବା ଉଚିତ?

Ans
- ✗ A. 33.99
- ✓ B. 31.43
- ✗ C. 27.86
- ✗ D. 32.46

Q.63 ସାତ ଜଣ ଲୋକ **A, B, C, D, E, F** ଓ **G** ଉତ୍ତର ଦିଗକୁ ମୁହଁ କରି ଗୋଟିଏ ଧାଡିରେ ବସିଛନ୍ତି । **F** ଙ୍କ ଡାହାଣ ପାର୍ଶ୍ୱରେ କେବଳ ଚାରି ଜଣ ଲୋକ ବସିଛନ୍ତି । **D** ଓ **F** ଙ୍କ ମଧ୍ୟରେ କେବଳ ଦୁଇଜଣ ଲୋକ ବସିଛନ୍ତି । **A** ଓ **D** ଙ୍କ ନିକଟତମ ପଡ଼ୋଶୀ **G** ଅଟନ୍ତି । **E** ଙ୍କ ଠିକ ଡାହାଣ ପାର୍ଶ୍ୱରେ **C** ବସିଛନ୍ତି । **B** ଓ **C** ଙ୍କ ମଧ୍ୟରେ କେତେ ଜଣ ଲୋକ ବସିଛନ୍ତି?

Ans
- ✗ A. ତିନି
- ✗ B. ଦୁଇ
- ✓ C. ଚାରି
- ✗ D. ପାଞ୍ଚ

Q.64 ଇଂରାଜୀ ବର୍ଣ୍ଣମାଳା କ୍ରମ ଆଧାରରେ **YVYU** ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ଉପାୟରେ **SPSO** ସହ ସମ୍ପର୍କିତ । **OLOK** ସେହି ସମାନ ଉପାୟରେ **IFIE** ସହ ସମ୍ପର୍କିତ । ସମାନ ତର୍କ ଅନୁସରଣ କରି ଦିଆଯାଇଥିବା କେଉଁ ବିକଳ୍ପଟି ସହ **RORN** ସମ୍ପର୍କିତ?

Ans
- ✓ A. LILH
- ✗ B. LHKH
- ✗ C. LJKN
- ✗ D. LIKH

blackbook

Q.65 **What is the nearest integer to 72979 that is divisible by 9?**

Ans

✗ A. 72978

✗ B. 72980

✗ C. 72977

✓ D. 72981

Q.66 ଯେତେବେଳେ ଏକ ସୋଡିୟମ ପରମାଣୁ ଗୋଟିଏ ଇଲେକ୍ଟ୍ରନ ହରାଇଥାଏ, ସେତେବେଳେ ତାହା କ'ଣ ହୋଇଯାଏ?

Ans

✗ A. ଏକ ବିଯୁକ୍ତାତ୍ମକ ଚାର୍ଜିତ ସୋଡିୟମ ଆୟନ

✗ B. ଏକ ସୋଡିୟମ ଅଣୁ

✗ C. ଏକ ପ୍ରଶମିତ ସୋଡିୟମ ପରମାଣୁ

✓ D. ଏକ ଯୁକ୍ତାତ୍ମକ ଚାର୍ଜିତ ସୋଡିୟମ ଆୟନ

Q.67 **F, G, H, M, N and O live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6.**
Only two people live between F and N. Only two people live between M and H. No one lives above M. N lives below H but above O.
On which floor does G live on?

Ans

✗ A. Floor numbered 5

✓ B. Floor numbered 4

✗ C. Floor numbered 2

✗ D. Floor numbered 3

Q.68 **Seven boxes, A, B, C, D, G, H and I, are kept one over the other, but not necessarily in the same order.**
A is kept immediately above C. G is kept immediately above I. Only D is kept above H.
Only two boxes are kept above A. G is not kept at third position from the bottom.
How many boxes are kept between B and D?

Ans

✓ A. Three

✗ B. One

✗ C. Four

✗ D. Two

Q.69 **Which of the folowing creates the initial movement of water into the root from the soil?**

Ans

✓ A. Active uptake of ions by root cells

✗ B. Gravity pulling water downward

✗ C. Passive absorption of minerals

✗ D. Translocation from the leaves

Q.70 ପ୍ରଦତ୍ତ ଅଛି ଯେ $69^{0.63} = x$, $69^{0.6} = y$ ଏବଂ $x^z = y^2$ ଅଟେ, ତେବେ z ର ଆସନ୍ନମାନ କେତେ?

Ans

✗ A. 3.7

✓ B. 1.9

✗ C. 1.3

✗ D. 3.4

Q.71 **Which of the following structural features helps the plant remain firm and upright?**

Ans

✓ A. Presence of a cell wall

✗ B. Transparent cytoplasm

✗ C. Flexible membranes

✗ D. Parenchyma tissue

Q.72 **In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.**

Q. Five students – Abeer, Charvi, Dhruvika, Eshan and Farah – scored different marks. Who scored the highest marks?

(I) Eshan scored more than Dhruvika, who scored more than Charvi.
(II) Farah scored less than Eshan but more than Abeer, and Abeer scored more than Dhruvika.

Ans

✗ A. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

✗ B. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

✓ C. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

✗ D. Both statements I and II together are NOT sufficient to answer the question

Q.73 **A vessel in the form of an inverted cone has a radius of 18 cm. This cone is partly filled with oil, which is dripping from a hole in the tip of the cone at a rate of 1 cm^3 in 45 minutes. In the beginning, the level of oil is 6 cm from top and the surface area of oil is 196π cm^2. How long (in hours) will it take the cone to be completely empty?**

Ans

✗ A. 1290π

✓ B. 1029π

✗ C. 1209π

✗ D. 1092π

Q.74 **ଗୋଟିଏ ପ୍ରଶ୍ନ ପରେ (I) ଏବଂ (II) ସଂଖ୍ୟା ବିଶିଷ୍ଟ ଦୁଇଟି ବିବୃତି ଦିଆଯାଇଛି । ବିବୃତିରେ ଦିଆଯାଇଥିବା ତଥ୍ୟ ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ପାଇଁ ଯଥେଷ୍ଟ କି ନାହିଁ ତାହା ଆପଣଙ୍କୁ ସ୍ଥିର କରିବାକୁ ହେବ । ଉଭୟ ବିବୃତି ପଢି ସବୁଠାରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ଚୟନ କର ।**
5 ଟି ଖୁଣ୍ଟ ମଧ୍ୟରୁ A, W, V, G ଏବଂ E ପ୍ରତ୍ୟେକର ଉଚ୍ଚତା ଭିନ୍ନ ଭିନ୍ନ ଅଟେ, କେଉଁ ଖୁଣ୍ଟ ସବୁଠାରୁ ଗେଡା ଅଟେ?
(I) E, W ଠାରୁ ଗେଡା ଅଟେ । G, A ଠାରୁ ଗେଡା ଅଟେ ।
(II) G, E ଠାରୁ ଡେଙ୍ଗା ଅଟେ ।

Ans

✗ A. ଏକାକୀ ବିବୃତି । ରେ ଥିବା ତଥ୍ୟ ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ପାଇଁ ଯଥେଷ୍ଟ ହେଉଥିବା ବେଳେ ବିବୃତି ।। ରେ ଥିବା ତଥ୍ୟ ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ପାଇଁ ଯଥେଷ୍ଟ ନୁହେଁ

✗ B. ଏକାକୀ ବିବୃତି ।। ରେ ଥିବା ତଥ୍ୟ ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ପାଇଁ ଯଥେଷ୍ଟ ହେଉଥିବା ବେଳେ ବିବୃତି । ରେ ଥିବା ତଥ୍ୟ ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ପାଇଁ ଯଥେଷ୍ଟ ନୁହେଁ

✓ C. ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ପାଇଁ ଉଭୟ ବିବୃତି । ଏବଂ ।। ଏକାଠି ଯଥେଷ୍ଟ ନୁହେଁ

✗ D. ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ପାଇଁ ଉଭୟ ବିବୃତି । ଏବଂ ।। ଏକାଠି (ଏବଂ ଏକାକୀ ବିବୃତି । କିମ୍ବା ଏକାକୀ ବିବୃତି ।। ନୁହେଁ) ଯଥେଷ୍ଟ

Q.75 **Refer to the following letter and symbol series and answer the question that follows.**

(Left) C G # E A @ $ R & U Ω T £ D J Y (Right)

If all the symbols are dropped from the series, which of the following will be fourth from the left?

Ans

✗ A. C

✗ B. D

✗ C. Y

✓ D. A

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