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सत्यमेव जयते

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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	9:00 AM - 10:00 AM
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 **9 is related to 83 following a certain logic. Following the same logic, 16 is related to 258. To which of the following is 3 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. 15
✗ B. 7
✓ C. 11
✗ D. 13

Q.2 **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	#	$	9	7	*	6	%	5	3	8
Code	L	K	A	F	B	J	S	O	H	P

Conditions –
(i) If the first element is a symbol and the last element is a number, interchange the codes for first and 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?
#$97*

Ans
✗ A. LKASB
✗ B. OKAFB
✓ C. LKAFB
✗ D. LKJFB

Q.3 **Which part of the brain is mainly responsible for thinking and decision making?**

Ans
✗ A. Hind-brain
✗ B. Spinal cord
✗ C. Mid-brain
✓ D. Fore-brain

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Q.4 **Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.**
(Left) T V @ $ @ £ £ © E R S € N W # % # M N © € $ (Right)
How many such letters are there, each of which is immediately preceded by a letter and also immediately followed by a letter?

Ans
✗ A. 2
✓ B. 1
✗ C. 3
✗ D. 0

Q.5 **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	3	+	8	#	@	5	!	&
Code	S	H	U	E	T	A	Q	W	J	B

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 3 + #

Ans
✗ A. SHUET
✗ B. SHUEW
✓ C. SHHEA
✗ D. SJUET

Q.6 **CYUW is related to YUQS in a certain way based on the English alphabetical order. In the same way, OKGI is related to KGCE. To which of the given options is IEAC related, following the same logic?**

Ans
✗ A. EZVY
✓ B. EAWY
✗ C. EBVB
✗ D. EAVY

Q.7 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**

PHL 2 MJJ -4 JLH 8 GNF -16 ?

Ans
✗ A. GHY 67
✓ B. DPD 32
✗ C. GYT 35
✗ D. FRE 34

Q.8 **This question is based on the five, three-digit numbers given below.**
(Left) 429 476 483 521 589 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

What will be the resultant if the second digit of the second highest number is added to the third digit of the second lowest number?

Ans
✗ A. 6
✗ B. 7
✓ C. 8
✗ D. 9

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Q.9 Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on first number results in the second number. Similarly, certain mathematical operation on second number results in the third number and so on. Which of the given options follows the same set of operations as in question?
(NOTE – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)
14 - 9 - 1 - 3
7 - 2 - (-6) - (-18)

Ans
- ✔ A. 9 - 4 - (-4) - (-12)
- ✘ B. 22 - 18 - 11 - 33
- ✘ C. 8 - 3 - (-7) - (-14)
- ✘ D. 50 - 44 - 36 - 72

Q.10 If $9\sec^2\theta - 6\tan^2\theta = 15$, θ is an acute angle, then find the value of $\operatorname{cosec}\theta$.

Ans
- ✔ A. $\sqrt{\frac{3}{2}}$
- ✘ B. $\frac{2}{\sqrt{3}}$
- ✘ C. $\sqrt{\frac{2}{3}}$
- ✘ D. $\frac{3}{\sqrt{2}}$

Q.11 This question is based on the five, three-digit numbers given below.
(Left) 214 359 369 741 846 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the second digit of the highest number is added to the second digit of the lowest number?

Ans
- ✔ A. 5
- ✘ B. 15
- ✘ C. 8
- ✘ D. 9

Q.12 A tap fills a tank in 9 hours, while another tap empties the full tank in 12 hours. If the tank is initially empty and both taps are opened together, how long (in hours) will it take to fill half of the tank?

Ans
- ✘ A. 36
- ✘ B. 19
- ✘ C. 38
- ✔ D. 18

Q.13 The HCF and LCM of two numbers are 48 and 576 respectively. If one of the numbers is 192, find the other number.

Ans
- ✘ A. 143
- ✔ B. 144
- ✘ C. 136
- ✘ D. 141

Q.14 The diameter of a right circular cone is 14 m and its slant height is 11 m. Find its volume.
$\left(\text{Take } \pi = \frac{22}{7}\right)$

Ans
- ✘ A. $408\sqrt{2}\ m^3$
- ✘ B. $108\sqrt{2}\ m^3$
- ✔ C. $308\sqrt{2}\ m^3$
- ✘ D. $208\sqrt{2}\ m^3$

Q.15 If 2x + 5y = 18 and 2x – 5y = 2, find the value of xy.

Ans
- ✔ A. 8
- ✘ B. 12
- ✘ C. 16
- ✘ D. 9

Q.16 Which one of the following statements is correct?

Ans
- ✔ A. A medium with higher absolute refractive index is optically denser.
- ✘ B. A medium with lower absolute refractive index is optically denser.
- ✘ C. A medium with higher absolute refractive index is optically rarer.
- ✘ D. Absolute refractive index does not relate to optical density.

Q.17 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '–', then what will come in place of the question mark (?) in the following equation?
9 B 3 D 21 A 3 C 2 = ? D 8

Ans
- ✘ A. 33
- ✘ B. 34
- ✘ C. 32
- ✔ D. 30

Q.18 If 'A' stands for '÷' , 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-' , what will come in place of the question mark '?' in the following equation?
17 D 6 B 4 C 49 A 7 = ?

Ans
- ✘ A. 4
- ✘ B. 12
- ✔ C. 0
- ✘ D. 7

Q.19 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
ABF–JKO
DEI–MNR

Ans
- ✘ A. RRU–ABF
- ✔ B. RSW–ABF
- ✘ C. RSW–ZBE
- ✘ D. RRU–ZAE

Q.20 Manav starts from Point A and drives 11 km towards East. He then takes a left turn, drives 12 km, turns left and drives 13 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 North
- ✘ B. 4 km to the North
- ✘ C. 4 km to the South
- ✘ D. 5 km to the South

Q.21 A shopkeeper marks a shirt 50% above its cost price. He then offers two successive discounts of 10% and 20% on the marked price. If the final selling price is ₹432, what was the original cost price of the shirt?

Ans
- ✘ A. ₹320
- ✘ B. ₹360
- ✘ C. ₹280
- ✔ D. ₹400

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Q.22 In Δ ABC, DE $\parallel$ AC, where D and E are the points on sides AB and BC, respectively. If BD = 10 cm and AD = 13 cm, then what is the ratio of the area of ΔBDE to the trapezium ADEC?

Ans
- ✗ A. 101:430
- ✓ B. 100:429
- ✗ C. 429:100
- ✗ D. 430:101

Q.23 Find the value of $\frac{(\cot^2 A - \tan^2 A)(\sin^2 A - 1)(\cos^2 A - 1)}{(2\cos^2 A - 1)} + \frac{(1 + \cot^2 A)}{\sin A}$.

Ans
- ✗ A. $1 - \text{cosec}^3 A$
- ✗ B. $\sin^3 A + 1$
- ✓ C. $1 + \text{cosec}^3 A$
- ✗ D. $\sin^3 A - 1$

Q.24 **What is the value of x, if x is the mean proportional between 0.16 and 0.64?**

Ans
- ✗ A. 0.24
- ✗ B. 0.40
- ✗ C. 0.48
- ✓ D. 0.32

Q.25 **A person invested ₹56,000 at a rate of 10% per annum simple interest for 4 years. Find the amount (in ₹) he will receive after 4 years.**

Ans
- ✗ A. 79,400
- ✗ B. 80,400
- ✗ C. 81,400
- ✓ D. 78,400

Q.26 **Match the following criteria with the correct description.**

Classification Criteria	Description
I). Mode of nutrition	A) Presence or absence of cell wall
II). Ecological role	B) Autotrophic or heterotrophic
III). Cell structure	C) Producer, consumer, or decomposer

Ans
- ✗ A. I-C, II-B, III-A
- ✗ B. I-A, II-C, III-B
- ✓ C. I-B, II-C, III-A
- ✗ D. I -A, II-B, III-C

Q.27 **Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.**

BOA : XQW
TSS : PUO

Ans
- ✓ A. LWK : HYG
- ✗ B. KTO : HWL
- ✗ C. YGD : WKB
- ✗ D. DWP : AYM

Q.28 **Two sounds have the same pitch and loudness, but one is more pleasant. Which characteristic helps us distinguish between them?**

Ans
- ✗ A. Amplitude
- ✗ B. Frequency
- ✓ C. Quality or timber
- ✗ D. Wavelength

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Q.29 Which of the following numbers is divisible by both 47 and 21?

Ans
- ✔ A. 48363
- ✘ B. 49923
- ✘ C. 47390
- ✘ D. 46676

Q.30 Given that $137^{0.61} = x$, $137^{0.25} = y$ and $x^z = y^6$, then the value of z is closest to:

Ans
- ✘ A. 4.48
- ✘ B. 2.89
- ✔ C. 2.46
- ✘ D. 4.17

Q.31 Which of the following parts of the female reproductive system is responsible for both producing eggs and releasing hormones?

Ans
- ✔ A. Ovary
- ✘ B. Cervix
- ✘ C. Uterus
- ✘ D. Oviduct

Q.32 What should come in place of the '?' in the given series?

62 63 65 69 77 ?

Ans
- ✔ A. 93
- ✘ B. 91
- ✘ C. 95
- ✘ D. 97

Q.33 The position(s) of how many letters will remain unchanged if each letter in the word ANCHOR is arranged in the English alphabetical order?

Ans
- ✘ A. One
- ✔ B. Three
- ✘ C. Two
- ✘ D. None

Q.34 Simplify $(2pq + 7q)^2 - (2pq - 7q)^2$.

Ans
- ✘ A. $28pq^2$
- ✘ B. $28p^2q^2$
- ✔ C. $56pq^2$
- ✘ D. $56p^2q$

Q.35 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	5	9	!	%
Code	E	D	C	Y	R	X	T	L	O	I

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?
$? * & +

Ans
- ✘ A. TDCYR
- ✘ B. EDCOR
- ✔ C. EDCYR
- ✘ D. EDLYR

Q.36 **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.**
Among 5 poles, W,O,K,G and Y each having a different height, which pole is the shortest?
(I)W is shorter than O but taller than K
(II)W is shorter than Y. G is taller than K

Ans
✗ A. Both statements I and II together are NOT sufficient to answer the question
✗ B. Data in Statement II alone is sufficient to answer the question while data in statement I 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. Data in Statement I alone is sufficient to answer the question while data in statement II is not

Q.37 **A started a business by investing ₹1,08,000. After 6 months, B joined him with a capital of ₹1,44,000. At the end of the year, they made a profit of ₹82,000. Find the profit share of B.**

Ans
✓ A. ₹32,800
✗ B. ₹30,000
✗ C. ₹48,000
✗ D. ₹46,000

Q.38 **A group of six friends spent the following amounts on lunch: ₹120, ₹135, ₹145, ₹150, ₹125, and x. If their average spending was ₹140, what is the value of x?**

Ans
✗ A. ₹170
✗ B. ₹155
✗ C. ₹160
✓ D. ₹165

Q.39 **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. V has an exam on Thursday. Only one person has exam between V and P. Q has exam on the day immediately after P but not on a Sunday. U has exam on the day immediately after V. S has exam on the day immediately before T. P has exam on the day immediately after R. Following a certain logic, Q is related to Wednesday in the given arrangement in the same way as S is related to Saturday. To which of the following days is T related, following the same logic?**

Ans
✗ A. Friday
✗ B. Tuesday
✗ C. Monday
✓ D. Sunday

Q.40 **When a more reactive metal reacts with a salt solution of a less reactive metal, what type of reaction will occur?**

Ans
✓ A. Displacement
✗ B. Substitution
✗ C. Addition
✗ D. Rearrangement

Q.41 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)**

Ans
✗ A. NTXA
✗ B. YEIL
✗ C. MSWZ
✓ D. XDGK

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Q.42 Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. Only four boxes are kept above E. Only four boxes are kept below A. G is kept immediately above B but below E. C is kept immediately below D. How many boxes are kept between F and G?

Ans
- ✔ A. One
- ✘ B. Two
- ✘ C. Four
- ✘ D. Three

Q.43 A, B, C, D, E, F, and G are sitting around a circular table facing the center. A sits second to the right of D. E is an immediate neighbor of A and G. D is an immediate neighbor of B and C. If F sits exactly to the left of C, who is sitting to the immediate left of G?

Ans
- ✘ A. C
- ✔ B. E
- ✘ C. F
- ✘ D. B

Q.44 Seven people, E, F, G, H, W, X and Y, are sitting around a circular table, facing the center of the table. E sits third to the left of F. Only one person sits between F and W, when counted from the left of W. Only two people sit between Y and H, when counted from the right of H. X is an immediate neighbor of Y. Who sits to the immediate left and immediate right of G, respectively?

Ans
- ✘ A. H and F
- ✘ B. X and W
- ✔ C. F and W
- ✘ D. F and X

Q.45 A woman's monthly income is ₹50,000. She spends 25% on rent, 35% on food, and 20% on transportation, saving the remaining amount. How much does she save each month?

Ans
- ✘ A. ₹8,000
- ✘ B. ₹12,500
- ✔ C. ₹10,000
- ✘ D. ₹15,000

Q.46 E, R, T, Y, U and W 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.
E lives on an odd numbered floor but not 5. The sum of floors on which E and R live is 5. Only 3 people live between R and W. U lives immediately above T.
How many people live below T?

Ans
- ✘ A. 2
- ✘ B. 4
- ✔ C. 3
- ✘ D. 1

Q.47 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	9	*	4	$
Code	P	Z	F	K	U	X	Q	Y	I	A

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

What is the code for : 9&!@7

Ans
- ✘ A. PZA©©
- ✔ B. QZF©©
- ✘ C. IZFKU
- ✘ D. UYFKQ

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Q.48 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?
GDF 8, JGI 13, MJL 18, PMO 23, ?

Ans
✗ A. TPR 27
✗ B. SPR 27
✗ C. TPQ 28
✓ D. SPR 28

Q.49 The surface area of a sphere increases by 44 cm² when its radius increases by 0.5 cm.
Find the original radius. $\left(\text{Use } \pi = \frac{22}{7}\right)$

Ans
✗ A. 4 cm
✗ B. 4.25 cm
✗ C. 3.5 cm
✓ D. 3.25 cm

Q.50 If '+' means '–', '–' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?

39 ÷ 24 × 3 – 5 + 19 = ?

Ans
✗ A. 58
✓ B. 60
✗ C. 62
✗ D. 64

Q.51 This question is based on the following words
TAP BED LOG FIN
In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many letter-clusters thus formed have a vowel in the first position from left?

Ans
✓ A. 2
✗ B. 1
✗ C. 3
✗ D. 4

Q.52 The sides of a triangle are 7, 9 and x. For what value of x is the area of the triangle the maximum?

Ans
✗ A. $\sqrt{140}$
✗ B. $\sqrt{110}$
✗ C. $\sqrt{120}$
✓ D. $\sqrt{130}$

Q.53 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 O lives above F. H lives immediately below F. Only G lives below N. How many people live between M and O?

Ans
✓ A. Two
✗ B. Three
✗ C. One
✗ D. Four

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Q.54 The following are the pocket money amounts (in ₹) received by a group of students: 400, 600, 400, 800, 600, 400, 1000. What is the mode of the data?

Ans
- ✗ A. ₹600
- ✓ B. ₹400
- ✗ C. ₹1000
- ✗ D. ₹800

Q.55 The difference between the compound interest (compounded annually) and simple interest on a certain sum for 2 years at 12% per annum is ₹57.60. Calculate the principal.

Ans
- ✗ A. ₹3500
- ✗ B. ₹4500
- ✓ C. ₹4000
- ✗ D. ₹3000

Q.56 A,B,C,D and E have scored different marks in an exam. C scored more than only 1 person. E scored more than A but less than D. A scored more than B. Who scored the highest?

Ans
- ✓ A. D
- ✗ B. A
- ✗ C. C
- ✗ D. E

Q.57 If 'A' stands for '÷' , 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-' , what will come in place of the question mark '?' in the following equation?
23 D 10 B 3 C 112 A 4 = ?

Ans
- ✗ A. 17
- ✗ B. 14
- ✗ C. 20
- ✓ D. 21

Q.58 A cat runs in a garden covering two different stretches. In the first stretch, it takes 70 steps, each of 0.4 meters. In the second stretch, it increases its speed and covers 56 steps, each of 0.5 meters. If the cat takes the same time (14 seconds) for each stretch, what is its average speed for the entire run?

Ans
- ✓ A. 2 m/s
- ✗ B. 5 m/s
- ✗ C. 1 m/s
- ✗ D. 4 m/s

Q.59 If the difference between compound interest, compounded annually, and simple interest on a certain sum for 2 years at 10% per annum is ₹21, what is the sum?

Ans
- ✗ A. ₹2,500
- ✗ B. ₹2,200
- ✗ C. ₹2,000
- ✓ D. ₹2,100

Q.60 A shopkeeper buys 60 dozen articles at ₹240 per dozen. He sells each article for ₹25. What is his profit percentage?

Ans
- ✗ A. 20%
- ✗ B. 30%
- ✗ C. 35%
- ✓ D. 25%

Q.61 The position(s) of how many letters will remain unchanged if each letter in the word SCRAMBLE is arranged in the English alphabetical order?

Ans
- ✓ A. None
- ✗ B. Three
- ✗ C. One
- ✗ D. Two

Q.62 **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.**
Among 5 poles, A,W,V,G and E each having a different height, which pole is the shortest?
(I)V is taller than only two poles. A is shorter than V and W is shorter than A
(II)G is taller than E

Ans
✗ A. Both statements I and II together are NOT sufficient to answer the question
✗ B. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
✓ C. Data in Statement I alone is sufficient to answer the question while data in statement II is not
✗ D. Data in Statement II alone is sufficient to answer the question while data in statement I is not

Q.63 **Refer to the following letter and symbol series and answer the question that follows.**
Counting to be done from left to right only.
(Left) T © * Q L @ M $ I B A © & J © O © & N £ I © (Right)
How many such letters are there, each of which is immediately preceded by a letter and also immediately followed by a letter?

Ans
✓ A. 1
✗ B. 3
✗ C. 2
✗ D. 0

Q.64 **What should come in place of '?' in the given series?**
6, 12, 24, 48, ?

Ans
✗ A. 98
✓ B. 96
✗ C. 90
✗ D. 102

Q.65 **What should come in place of '?' in the given series?**

6 10 15 21 28 36 ?

Ans
✗ A. 43
✓ B. 45
✗ C. 47
✗ D. 48

Q.66 **Refer to the following letter and symbol series and answer the question that follows.**

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

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

Ans
✗ A. G
✗ B. A
✗ C. R
✓ D. E

Q.67 **A man bought a chair for ₹350 and sold it at a loss of 10%. What was the selling price?**

Ans
✗ A. ₹320
✗ B. ₹310
✓ C. ₹315
✗ D. ₹300

Q.68 **A ramp is used to load boxes onto a truck. If the ramp is made longer but the height remains the same, what will happen to the mechanical advantage and why?**

Ans
✓ A. The mechanical advantage increases because the input force is spread over a greater distance
✗ B. The mechanical advantage decreases because the ramp is shorter
✗ C. The mechanical advantage decreases because the ramp becomes steeper
✗ D. The mechanical advantage increases because the ramp is higher

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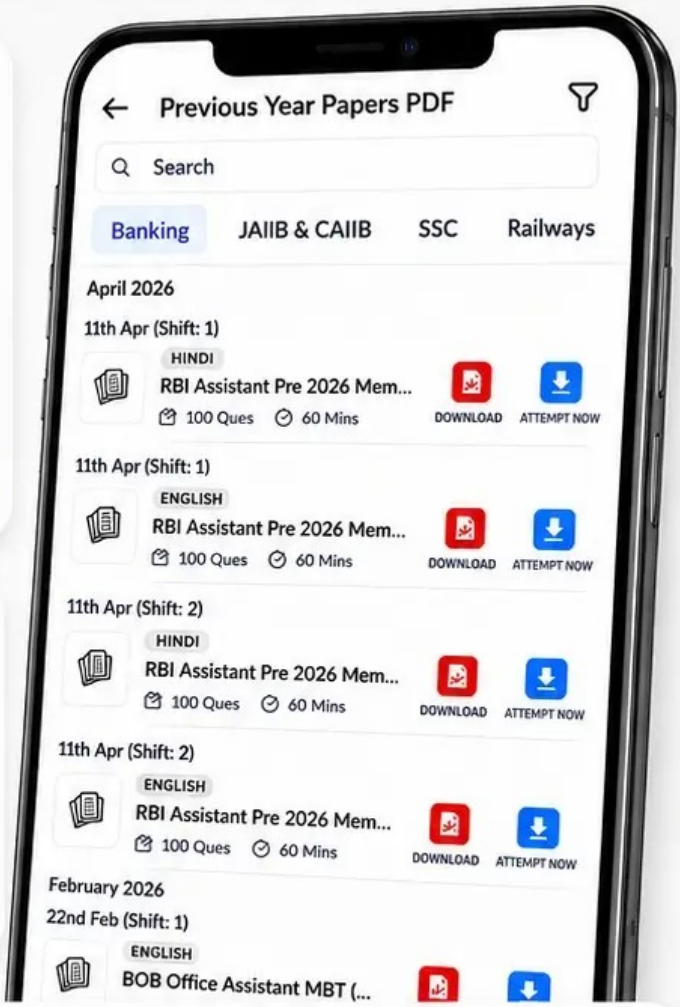

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Q.69 **115 is related to 226 following a certain logic. Following the same logic, 219 is related to 330. To which of the given options is 306 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their 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. 419
- ✗ B. 421
- ✓ C. 417
- ✗ D. 415

Q.70 **Seven people, A, B, C, D, E, F and G are sitting in a row, facing north. Only four people sit to the right of E. Only four people sit to the left of F. G is the immediate neighbour of C and E. B sits third to the left of D. How many people sit between A and E?**

Ans
- ✓ A. Two
- ✗ B. One
- ✗ C. Four
- ✗ D. Three

Q.71 **Which observation from Rutherford's experiment led to the conclusion that the atom is mostly empty space?**

Ans
- ✗ A. Electrons emitted light while rotating
- ✗ B. A few alpha particles bounced back from the foil
- ✓ C. Most alpha particles passed straight through the foil
- ✗ D. Alpha particles were absorbed completely by the gold foil

Q.72 **A car's radiator should contain a solution of 51% antifreeze. A motorist has 9 litres of 23% antifreeze. How many litres (rounded off to 2 decimal places) of 97% antifreeze liquid should he add to his solution to produce a 51% antifreeze?**

Ans
- ✗ A. 4.18
- ✗ B. 10.39
- ✗ C. 6.94
- ✓ D. 5.48

Q.73 **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✓ A. LH – CZ
- ✗ B. TP – KG
- ✗ C. EA – VR
- ✗ D. IE – ZV

Q.74 **Each letter in the word FIRMEST is changed to the letter immediately following it in the English alphabetical order and then all the letters thus formed are arranged in the English alphabetical order. Which of the following letters will be fourth from the right in the new group of letters thus formed?**

Ans
- ✓ A. N
- ✗ B. G
- ✗ C. S
- ✗ D. J

Q.75 **Rizwan starts from Point A and drives 37 km towards the East. He then takes a right turn, drives 14 km, then turns right and drives 58 km. He then takes a right turn and drives 31 km. He takes a final right turn, drives 21 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. 14 km to the South
- ✓ B. 17 km to the South
- ✗ C. 15 km to the South
- ✗ D. 16 km to the North