

रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



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Test Date	25/11/2024	
Test Time	9:00 AM - 10:00 AM	
Subject	ALP Stage 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 Select the pair which follows the same pattern as that followed by the two pair given below. Both pairs follow the same pattern.

FIND: URMW

BENT: YVMG

Ans X 1. FILE : VROV

✓ 2. HERO : SVIL

X 3. BEAD :YVYW

X 4 SAID : HZRV

Q.2 Particles of matter are continuously moving due to their:

Ans

× 1. nuclear energy

2. kinetic energy

X 3. chemical energy

× 4. mechanical energy

Q.3 Which of the following statements is/are related to ecosystem?

- (i) It consists of biotic components comprising living organisms.
- (ii) All green plants and certain bacteria are producers.
- (iii) Decomposers break-down complex organic into simple organic substance.

Ans

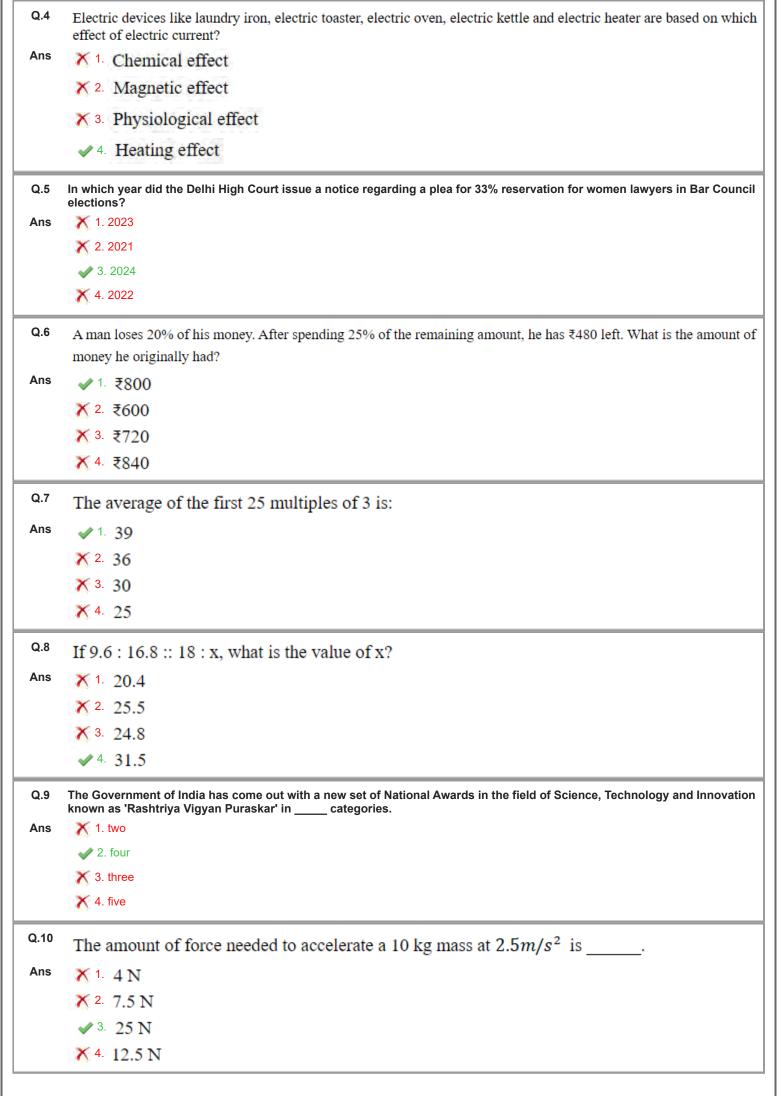
X 1 Only (i) and (iii)

✓ 2. (i),(ii) and (iii)

3. Only (i) and (ii)

X 4. Only (i)

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Q.11 A 3-digit number is such that its units' digit, tens' digit and hundreds' digit are in the ratio 2:3:4. The sum of this number and the number obtained by reversing its digits is 1332. Find the positive difference between the 3-digit number and the number formed by reversing its digit.

Ans 🔭

X 1 594

× 2. 323

3. 396

X 4. 414

Q.12 In case of jelly, which of the following is the dispersed phase?

Ans

✗ 1. Both solid and liquid phases

X 2. Gas phase

X 3. Solid phase

4. Liquid phase

Q.13 If $x + \frac{1}{x} = 5$, then $x^2 + \frac{1}{x^2} = ?$

Ans

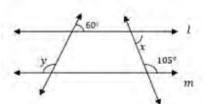
X 1. 25

X 2. 24

√ 3. **23**

X 4. 26

Q.14 In the adjoining figure line l is parallel to line m. What is the value of x + 2y?



Ans

X 1. 340°

× 2. 225°

X 3. 270°

√ 4. 315°

Q.15 Who among the following is the author of the book 'The Miracle Makers: Indian Cricket's Greatest Epic'?

Ans

💢 1. Hrushikesh Kanitkar

2. Bharat Sundaresan

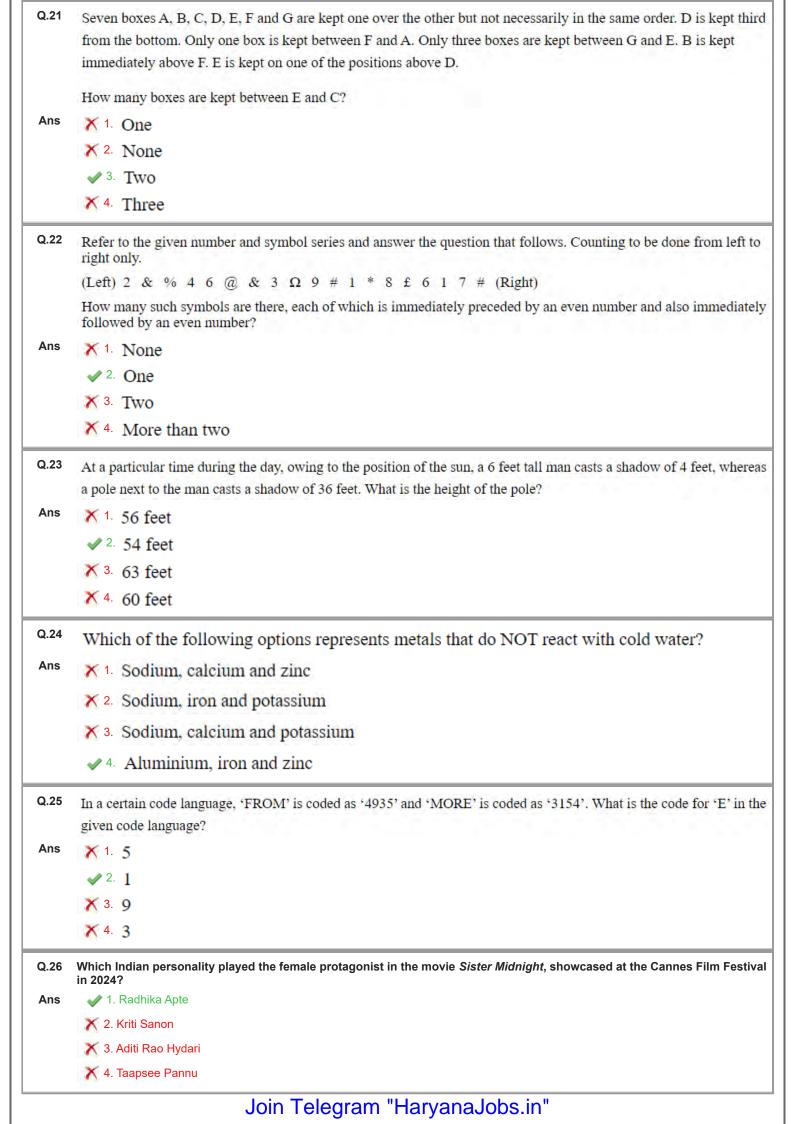
X 3. Sunil Joshi

X 4. Shiv Sundar Das

Q.16 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is same as that on the right side of ::? (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.) X:679::864:Y Ans \checkmark 1. X = 825, Y = 718 \times 2. X = 812, Y = 756 X = 834, Y = 704X 4. X = 898, Y = 649 Q.17 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order? BEV, FIR, JMN, NQJ, RUF, ? Ans 1. TUS √ 2. VYB X 3. YVB X 4. STU Q.18 If the force of attraction between the earth and an apple separated by distance 'x' is 'F', then the force acting on the same apple kept at a distance '2x' will be Ans X 1. F/2 √ 2. F/4 X 3. 4F X 4. 2F Q.19 Which of the following is the characteristics of striated muscles? Ans 1 cylindrical, branched and multinucleate × 2. spindle-shaped, unbranched and multinucleate 💢 3. spindle-shaped, unbranched and uninucleate 4 cylindrical, unbranched and multinucleate Q.20 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X:346::9:Y Ans X = 8, Y = 756 \times 2. X = 5, Y = 612

 \checkmark 3. X = 7, Y = 732

 \times 4. X = 6, Y = 729



Q.27 ZX is related to AC in a certain way. In the same way, US is related to FH. To which of the following options is PN related, following the same logic?

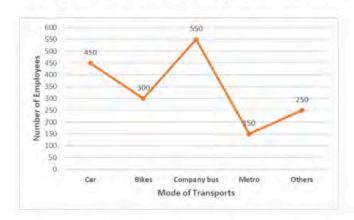
Ans 1. KO

2. LM✓ 3. KM

× 4. ML

Q.28 Study the given graph and answer the question that follows.

The graph shows the number of employees who used different modes of transport in the year 2010.



What is the respective ratio between the number of employees who used Bike to the number of employees who used Metro?

Ans X 1. 4:5

✓ 2. 2:1

× 3. 3:2

X 4. 5:2

Q.29 If each vowel in the word CONSTRUCTION is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order, then which of the following letters will be sixth from the right in the group of letter thus formed?

Ans 🔀 1. S

X 2. B

X 3. Q

✓ 4. V

Q.30 Select the number from among the given options that can replace the question mark (?) in the following series.

26 78 36 108 66 198 ?

Ans 💢 1. 128

X 2. 164

% 3. 142

√ 4. 156

Q.31	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 letter-cluster 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	X 1. JMR
	× 2. KNS
	× 3. EHM
	✓ 4. RUY
Q.32	Which natural disaster triggered storms, flash floods, and landslips in the northeastern states of India in 2024?
Ans	✓ 1. Cyclone Remal
	X 2. Cyclone Yaas
	X 3. Cyclone Amphan
	4. Cyclone Fani
Q.33	Which of the following numbers is divisible by 11?
Ans	× 1. 9248164
	× 2. 7247564
	✓ 3. 9246864
	× 4. 8245964
Q.34	Traits can be influenced by:
Ans	✓ 1. by both paternal DNA and maternal DNA
	× 2. only paternal DNA
	× 3. only maternal DNA
	× 4. only maternal grandparent DNA
Q.35	Find the compound interest on ₹11,000 in 2 years at 4% p.a., interest compounded yearly.
Ans	X 1. ₹875.80
	× 2. ₹906.50
	× 3. ₹786.60
	✓ 4. ₹897.60
Q.36	If 'I' stands for '+', 'J' stands for '×', 'K' stands for '+', and 'L' stands for '-', what will come in place of the question mark '?' in the following equation?
	38 I (3 J 4) L (16 K 2) I 11 =?
Ans	X 1. 34
	× 2. 47
	× 3. 61
	√ 4. 53

Q.37	A, B, C, D, E and F are sitting around a circular table facing the centre. B sits second to the right of D. A is an immediate neighbour of E and C. E sits second to the left of F. What is the position of F with respect to B?
Ans	X 1. Third to the right
	× 2. Immediate right
	✓ 3. Immediate left
	X ⁴. Second to the left
Q.38	A car covers four successive 3 km stretches at speeds of 10 km/h, 20 km/h, 30 km/h and 60 km/h, respectively. Its average speed over this distance is:
Ans	1. 30 km/h
	× 2. 15 km/h
	★ 4. 25 km/h
Q.39	A series of compounds in which the same functional group substitutes for hydrogen in a carbon chain is called
Ans	× 1. catenation
	× 2. isomers
	X 3. heterologous series
Q.40	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.
	Statements:
	All fishes are birds.
	All birds are animals.
	Conclusions:
	(I) All animals are fishes.
	(II) Some birds are fishes.
Ans	★ 1. Both conclusions (I) and (II) follow.
	✓ 2. Only conclusion (II) follows.
	× 3. Neither conclusion (I) nor (II) follows.
	★ 4. Only conclusion (I) follows.
Q.41	Cranial nerves arising from the brain and spinal nerves arising from the spinal cord together constitute the:
Ans	 ✓ 1. peripheral nervous system
	× 2. autonomic nervous system
	× 3. central nervous system
	- Colling not roughly steril

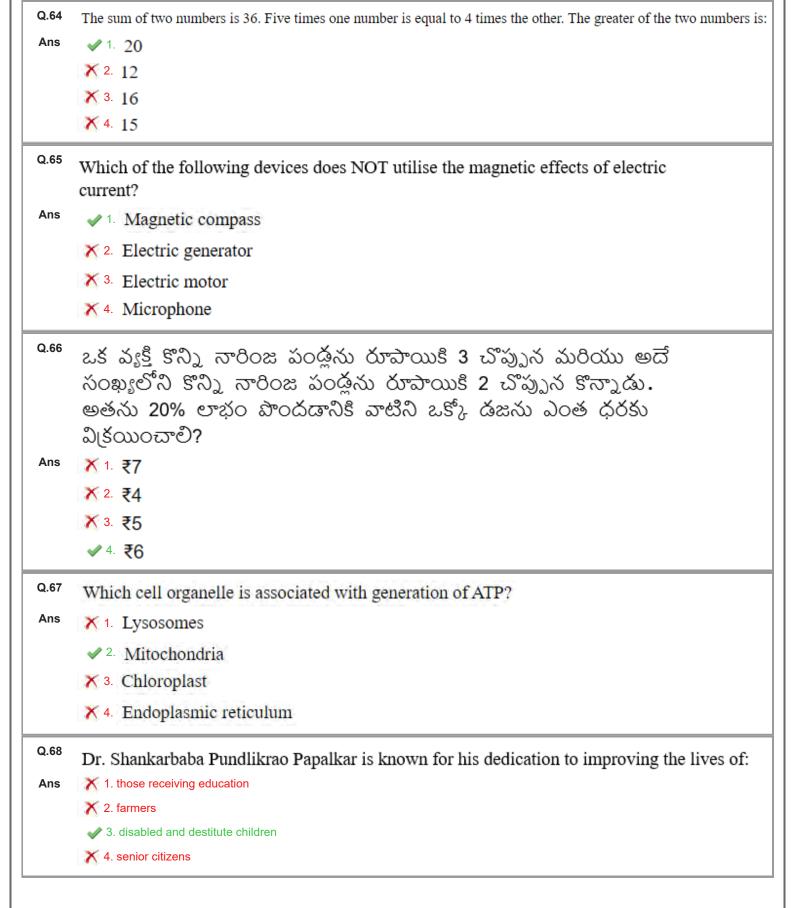
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Q.42 If the HCF and the LCM of two numbers are 7 and 245, respectively, then their product is: Ans X 1. 1517 × 2. 1175 X 3. 1751 √ 4. 1715 Q.43 The atomic number of an atom is equal to the: Ans √ 1 total number of protons present in the nucleus of an atom 2. sum of the number of electrons and that of neutrons x 3. half of the number of electrons present in the nucleus of an atom X 4 sum of the number of protons and that of neutrons Q.44 In a certain code language, A + B means 'A is the brother of B', A - B means 'A is the son of B', A × B means 'A is the wife of B' and A + B means 'A is the father of B'. Based on the above, how is Q related to S if $P - Q \div R \times S + T$? Ans X 1. Husband's brother ✓ 2. Wife's father X 3. Wife's brother X 4. Father Q.45 Evaluate the given expression. $2^3 \times (-9)^0 \times 3^3$ Ans X 1. 81 √ 2. 216 X 3. 36 X 4. 9 Q.46 If each vowel in the word REALISM is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter following it in the English alphabetical order and then arrange in reverse order of English alphabetical order, then which of the following letters will be fourth from the left in the group of letter thus formed? Ans 🟋 1. N X 2. F X 3. √ 4. M Join Telegram "HaryanaJobs.in"

Q.47 In a certain code language, 'NUMB' is coded as '4618' and 'BUNT' is coded as '6438'. What is the code for 'T' in the given code language? Ans X 1. 8 √ 2. 3 X 3. 6 X 4. 4 Q.48 A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for ₹3,200. With the help of C, they completed the work in 3 days. How much is to be paid to C? Ans X 1. ₹800 √ 2. ₹400 **X** 3. ₹375 X 4. ₹600 A shopkeeper provides successive discounts of 5% and 4%, which are equivalent to a single discount of Ans X 1. 9% X 2. 8% X 3. 9.2% 4. 8.8% Q.50 A triangle has sides of length 5 cm, 7 cm and 10 cm. Find the area of the triangle (in cm²). Ans √ 1. 2 √66 × 2. 7√10 X 3. 25 X 4. 350 Q.51 Select the correct balanced reaction for $CuO + NH_3 \rightarrow Cu + N_2 + H_2O$. × 1. $2\text{CuO} + 3\text{NH}_3 \rightarrow 3\text{Cu} + \text{N}_2 + 3\text{H}_2\text{O}$ Ans \times 2. 3CuO + 2NH₃ \rightarrow 3Cu + 2N₂ + 3H₂O ✓ 3. 3CuO + 2NH₃ → 3Cu + N₂ + 3H₂O \times 4. 3CuO + 2NH₃ \rightarrow 3Cu + N_2 + 4H₂O Q.52 Who among the following created the record in the boys' 1500m by completing the race in 3:51.12 mins at the 6th Khelo India Youth Games? X 1. Adi Sharma Ans \chi 2. Jay Kumar Verma X 3. Rahul Iyer 4. Rahul Sarnaliya

Q.53	Water flows into a tank having the dimensions of through a rectangular pipe having dimensions g. In what time (in minutes) will the water rise by	iven as 1.5 m × 1.25 m @ 20 kmph.
Ans	X 1. 234	
	→ 2. 96	
	× 3. 540	
	★ 4. 72	
Q.54	Which two numbers should be interchanged to m	nake the given equation correct?
	$21 \times 4 + (84 \div 7) \times 2 - 15 \times 5 + 42 = 105$	
	(Note: Interchange should be done of entire number	ber and not individual digits of a given number.)
Ans	★ 1. 4 and 2	
	X 3. 4 and 5	
	X 4. 7 and 21	
Q.55	Match the following.	
	(i) The swollen bottom part of the pistil is	(a) stigma
	(ii) The middle elongated part of the pistil is (iii) The terminal part of the pistil is	(b) ovule (c) ovary
	(iv) The ovary contains	(d) style
Ans	√ 1. (i) - (c), (ii)- (d), (iii) - (a), (iv)- (b)	
	× 2. (i) - (a), (ii)- (d), (iii) - (c), (iv)- (b)	
	★ 3. (i) - (b), (ii)- (c), (iii) - (a), (iv)- (d)	
	X 4. (i) - (c), (ii)- (b), (iii) - (a), (iv)- (d)	
	(i) - (c), (ii) - (d), (iii) - (d)	
Q.56	Twinkling of stars is related to the phenomenon	of
Ans	★ 1 interference of light	
	× 2. reflection of light	
	★ 4. dispersion of light	
Q.57	Seven people, B, C, D, E, F, G, and K, are sitting in a straig	ght line, facing north. Only three people sit to the left of B.
	Only K sits to the right of G. Only three people sit between place to the right of E.	G and D. C sits at some place to the left of F but at some
	How many people sit between E and F?	
Ans	🗶 1. One	
	× 2. Four	
	✓ 3. Three	
	X 4. Two	
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Q.58 Ans	In which state is the Gingee Fort, which was recently nominated for the UNESCO World Heritage status, located? 1. Gujarat
	X 2. Rajasthan
	X 3. Karnataka
	√ 4. Tamil Nadu
Q.59 Ans	In the Union Budget 2024, which initiative did the Finance Minister announce to enhance productivity in agriculture? 1. Introduction of genetically modified crops
	2. Expansion of irrigation facilities nationwide
	3. A new subsidy program for farmers
	✓ 4. A comprehensive review of the agriculture research setup
Q.60	Brinda starts from Point A and drives 19 km towards West. She then takes a left turn, drives 22 km, turns left and drives 25 km. She takes a final left turn, drives 22 km and stops at Point P. How far (shortest distance) and towards which direction should she drive to reach Point A again? (All turns are 90 degrees turns only unless specified.)
Ans	★ 1 7 km towards the West
	× 2. 7 km towards the South
	X 4. 6 km towards the East
Q.61	The average height of 50 pupils in a class is 150 cm. Five of them whose average height is 146 cm, leave the class, and five others whose average height is 156 cm, join. The new average height of the pupils of the class (in cm) is
Ans	X 1. 152
	X 2. 153
	✓ 3. 151
	X 4. 149
Q.62	
	Which of the following is produced when hydrochloric acid reacts with water?
Ans	✓ 1. Both H ₃ O ⁺ and Cl ⁻
	× 2. Both HO⁻ and Cl⁻
	X 3. Only Cl⁻
	X 4. Only H ₃ O ⁺
Q.63	In the case of reflection of the light from a convex mirror, when a parallel beam of light is incident on the reflecting surface, reflected light
Ans	★ 1 appears to converge at the principal focuss
	✓ 2. appears to diverge from the principal focus
	X 3. appears to converge at the centre of curvature
	★ 4 appears to diverge from the centre of curvature



seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements. Statements: All plants are rhinos. All plants are animals. Conclusion: (I) All rhinos are plants. (II) Some animals are rhinos. Ans 1. Neither conclusion (I) nor (II) follows. 2. Both conclusions (I) and (II) follow. 3. Only conclusion (II) follows. X 4. Only conclusion (I) follows. Q.70 Anil spends 40% of his income on rent and 40% of the remaining income on medicines. If he saves ₹7,200 every month, then his monthly income is: Ans **X** 1 ₹22,000 √ 2. ₹20,000 **×** 3. ₹36,000 **X** 4. ₹25,000 Q.71 కింద ఒక ప్రకటన, దాని తర్వాత 1 మరియు 2 అనే రెండు సాధ్య కారణాలు ఇచ్చారు. ప్రకటనను జాగ్రత్తగా చదివి, ఇచ్చిన రెండు కారణాలలో ప్రకటనలోని సంఘటన/పరిశీలన/సమాచారాన్ని వివరిస్తుందో నిర్ణయించండి. ప్రకటన - 14 జూన్ 2023న X నగరంలో విద్యుత్ బిల్లు చెల్లింపుకు కౌంటర్ల వద్ద ఏొడవైన క్యూలు కనిపించాయి. ತ್ರಾರಣ್ಉ: (1) సిటీ Xలో విద్యుత్ బిల్లుల చెల్లింపుకు చివరి తేదీ ప్రతి నెల 15వ తేదీ. (2) సర్వర్ పైఫల్యం కారణంగా చాలా మంది వ్యక్తులు జూన్ 2023లో ఆన్లైన్లలో విద్యుత్ బిల్లును చెల్లించలేకపోయారు. Ans 🗶 1. 1 కానీ లేదా 2 కానీ సాధ్యమయ్యే కారణం కాదు. 🗸 2. 1 ಮರಿಯು 2 ನೌಧ್ಯಮಯ್ಯೆ ಕಾರಣಾಲು. 🗶 3. 1 మాత్రమే సాధ్యమైన కారణం. 🗶 4. 2 మాత్రమ్ సాధ్యమైన కారణం.

Read the given statements and conclusions carefully. You have to take the given statements to be true even if they

Q.69

Q.72	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 letter-cluster 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	✓ 1. SVP
	× 2. OSL
	X 3. HLE
	X 4. FJC
Q.73	Who was appointed as the Director General of Sashastra Seema Bal (SSB) in September 2024?
Ans	X 1. Kuldiep Singh
	✓ 2. Amrit Mohan Prasad
	X 3. Subodh Kumar Jaiswal
	4. Rakesh Asthana
Q.74	Which of the following options should come in place of the question mark (?) in the given series based on the English
	alphabetical order?
	DFH, KMO, RTV, YAC,?
Ans	X 1. EGI
	✓ 2. FHJ
	× 3. FIL
	× 4. EGK
Q.75	Energy possessed by a body by virtue of its position or configuration is
Ans	✓ 1. potential energy
	× 2. nuclear energy
	× 3. electromagnetic energy

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🔀 4. kinetic energy



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Test Date	25/11/2024
Test Time	12:30 PM - 1:30 PM
Subject	ALP Stage 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 Which award has been conferred to Ram Chet Chaudhary in the field of Science and Engineering in 2024?

Ans

- X 1. Padma Vibhusan
- 2. Padma Shri
- X 3. Padma Bhusan
- X 4. Bharat Ratna
- Q.2 The average of all the prime numbers between 30 and 50 is:

Ans

- X 1. 40.2
- X 2. 40.4
- X 3. 38.9
- **4.** 39.8

Q.3

If $4\sin^2\theta = 1$ and θ is an acute angle, then the value of $\cos^2\theta + \tan^2\theta =$

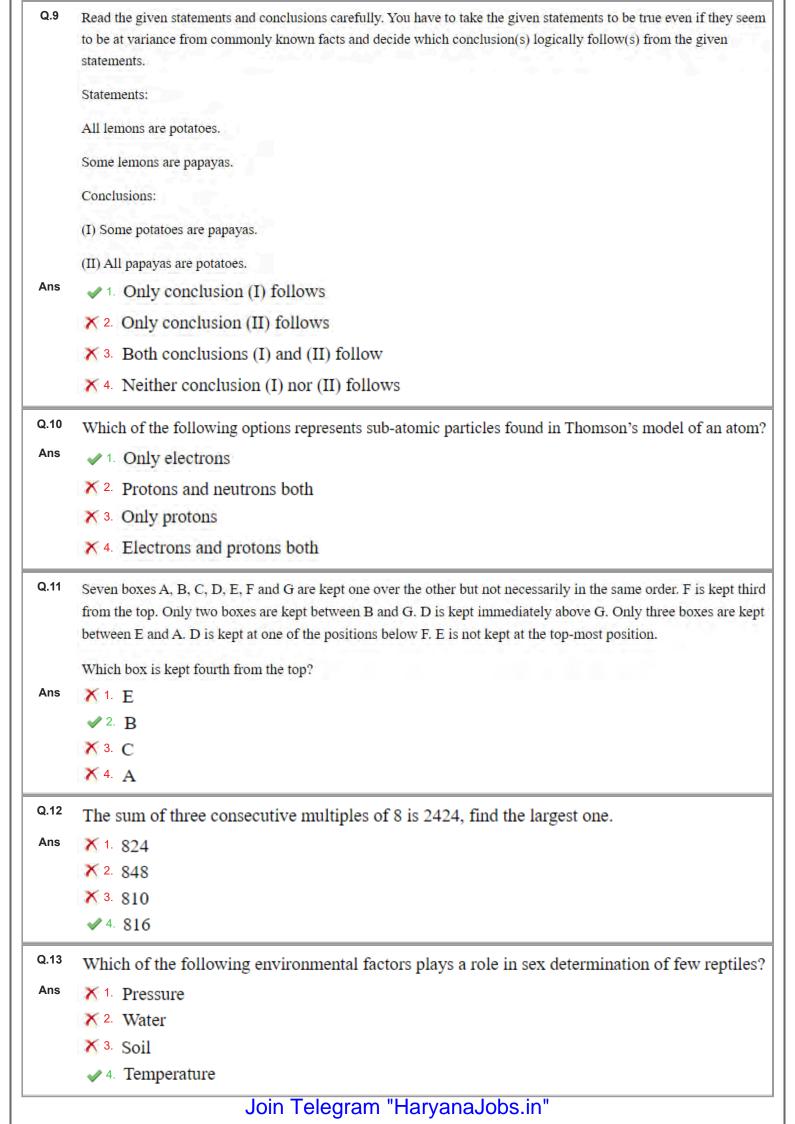
Ans

- √ 1.
 13
 12
- $\frac{5}{13}$
- X 3. 1
- X 4. 1/4
- Q.4 The division of labour occurs in:

Ans

- X 1. only unicellular organisms
- × 2. only multicellular organisms
- 💢 3. neither unicellular nor in multicellular organism

Q.5 The value of M in $(p/q)^{2M+2} = (q/p)^{9-M}$ is: Ans \times 1. $\frac{-7}{2}$ **✓** 2. **−11** X 3. 6 X 4. 5 Q.6 Which of the following options should come in place of the question mark (?) in the given series to make it logically complete? 361, 348, 335, 322, 309,? Ans X 1. 290 **X** 2. 300 √ 3. 296 X 4. 294 **Q.7** A man sold an article for ₹247.50, there by gaining 12.5%. The cost of the article was: Ans 1. ₹220 × 2. ₹225 X 3. ₹210 **X** 4. ₹224 **Q.8** If each letter of the word TYPING, is changed to the letter immediately preceding it in the English alphabetical order and the new group of letters thus formed is rearranged in English alphabetical order, then which letter is first to the right in the new rearranged group of letters? Ans X 1. O ✓ 2. X X 3. M X 4. S



Q.14 Gastric glands present in the wall of the stomach do NOT release: Ans ✓ ¹ saliva × 2. pepsin 3. hydrochloric acid X 4. mucus Q.15 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of :: ? (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.) X:128:: 146:Y Ans \checkmark 1. X = 164, Y = 92 \times 2. X = 168, Y = 98 X = 174, Y = 84 \times 4. X = 156, Y = 86 Q.16 Select the correct balanced equation for the reaction $Al_2(SO_4)_3 + BaCl_2 \rightarrow AlCl_3 + BaSO_4$. Ans 1. $Al_2(SO_4)_3 + 3BaCl_2 \rightarrow 3AlCl_3 + 2BaSO_4$ \times 2. $2Al_2(SO_4)_3 + 3BaCl_2 \rightarrow 2AlCl_3 + 3BaSO_4$ \times 3. Al₂(SO₄)₃ + 2BaCl₂ \rightarrow 2AlCl₃ + 3 BaSO₄ \checkmark 4. Al₂(SO₄)₃ + 3BaCl₂ \rightarrow 2AlCl₃ + 3 BaSO₄ Q.17 L, P, R, V, X, Y and Z are sitting around a circular table facing the centre. Only one person sits between V and L, when counted from the right of V. Only one person sits between L and X. Only one person sits between V and Z. Only two people sit between R and X. Only one person sits between P and Z. Who sits to the immediate right and left of Y, respectively? Ans X 1 Z and V X 2. V and X 3. V and Z 4. X and Z The discussion paper titled '_____' was released by NITI Aayog on 15 January 2024. Q.18 1. Poverty Alleviation in India Ans 2. Multidimensional Poverty in India since 2005-06 3. Economic Growth and Poverty Reduction 4. Government Initiatives for Poverty Eradication

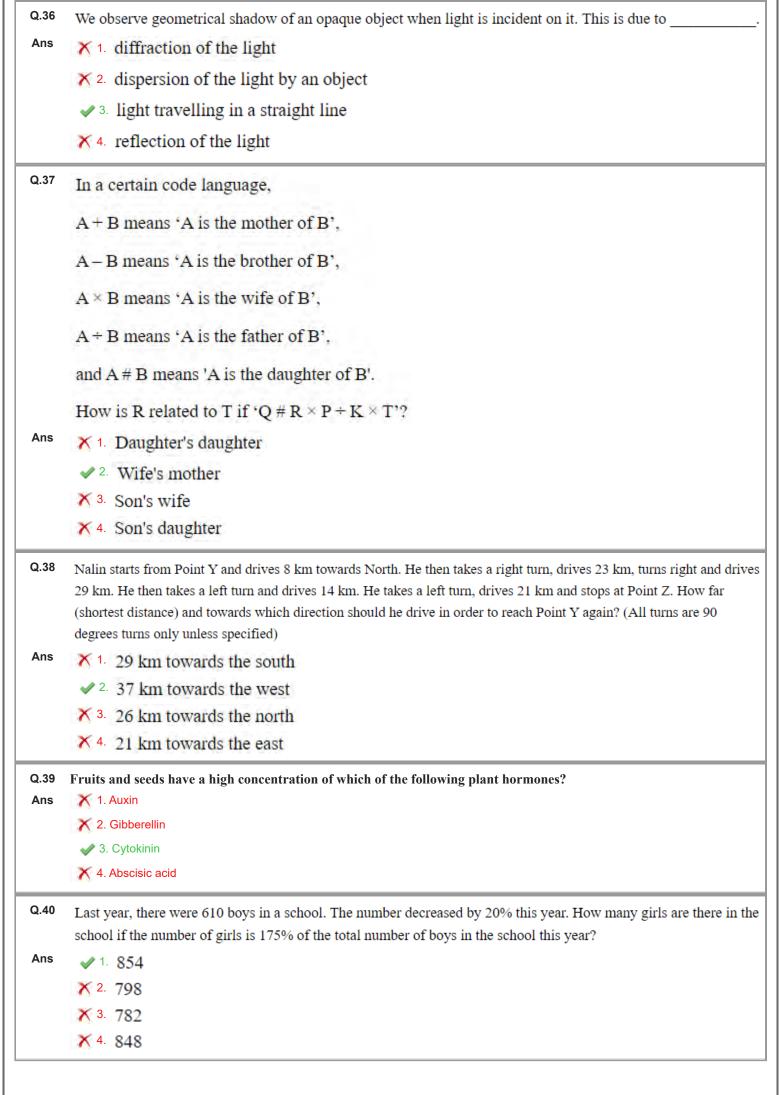
Q.19 The tax on a commodity is reduced by 20% and its consumption is increased by 15%. What is the effect on tax revenue? Ans 1 It increases by 10% ✓ 2. It decreases by 8% X 3. It increases by 8% X 4. No change Q.20 A diver rowing at the speed of 3 km/h in still water takes double the time going 50 km upstream compared to going 50 km downstream. The speed of the diver downstream is: Ans 1. 9 km/h √ 2. 4 km/h $\frac{7}{2}$ km/h × 4. 10 km/h Q.21 Two successive discounts of 40% and 60% on a deal are equivalent to a single discount of: Ans X 1. 70% × 2. 66% √ 3. 76% X 4. 80% Q.22 Simplify the following expression: $(2z-5y)^2 + (5z+2y)^2 - 25z^2$ Ans \times 1. $19y^2 + 4z^2$ \times 2. $19y^2-4z^2$ \checkmark 3. $29v^2+4z^2$ \times 4. 29 y^2 -4 z^2 Q.23 The LCM of 84, 105 and 140 is: Ans X 1. 360 × 2. 240 X 3. 120 4. 420 Q.24 When we are travelling in a bus, we tend to move forward when the bus is stopped suddenly. This is because of X 1. Newton's third law of motion Ans X 2. acceleration due to gravity 3. the inertia of our body X 4. Newton's second law of motion Join Telegram "HaryanaJobs.in"

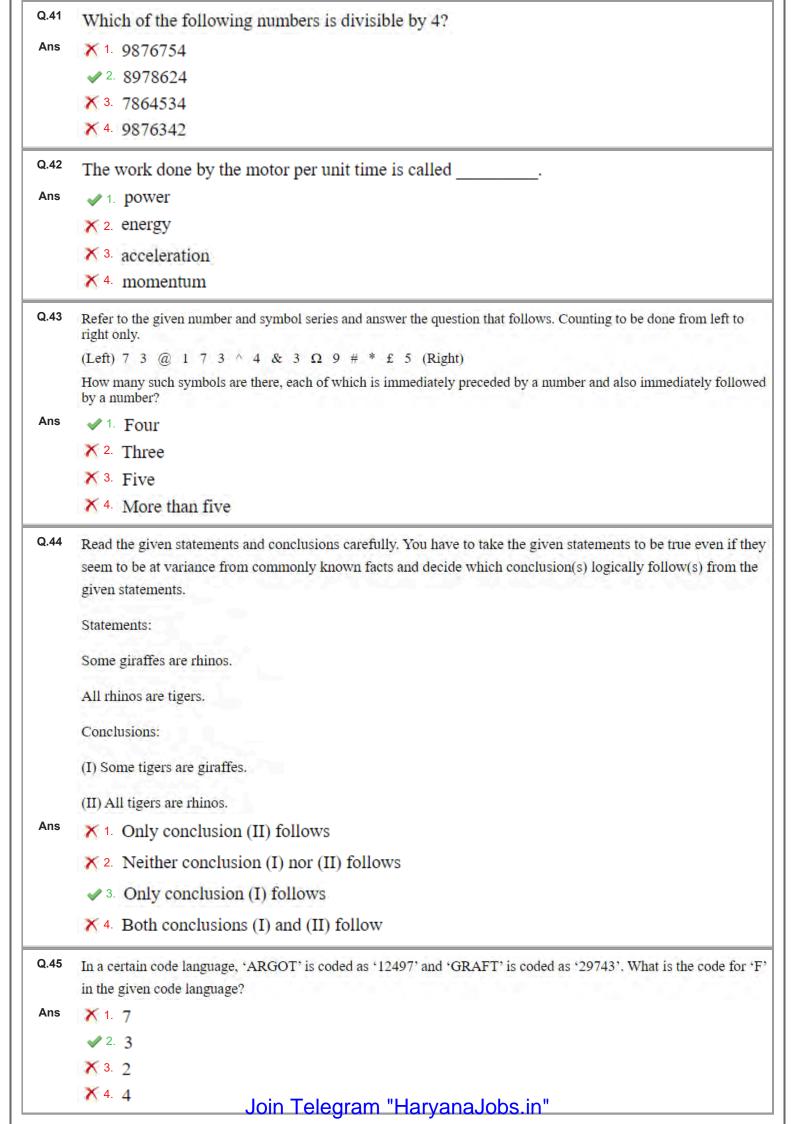
Ans	✓ 1. Goal 5 (Gender Equality)
	X 2. Goal 15 (Life on Land)
	X 3. Goal 13 (Climate Action)
	X 4. Goal 8 (Decent Work and Economic Growth)
Q.26	Find the number of bricks, each measuring 24 cm × 12 cm × 8 cm, required to construct a wall 24 m long, 8m high and
	60 cm thick if 10% of the wall is filled with mortar?
Ans	√ 1. 45000
	× 2. 450000
	× 3. 450
	★ 4. 4500
Q.27	Select the INCORRECT statement.
Ans	★ 1. Male germ-cells are produced by pollen grain.
	✓ 2. Female gamete is present in the stigma.
	★ 3. Fertilisation gives us zygote.
	X 4. The fusion of male gamete and female gamete is known as fertilisation.
Q.28	Given below is a statement followed by two possible reasons numbered I and II. Read the statement carefully and decide which of the two explain(s) the event/observation/information given in the statement.
	Statement - The railway authorities have decided to run two holiday special trains on Tuesdays and Fridays from City A to City B from 19th October 2023 to 5th January 2024.
	Reasons:
	(I) Flights from City A to City C are booked to capacity, and airlines are planning to increase the number of flights operating between City A and City C from August 2023.
	(II) Many migrants from City B who work in city A, travel back to City B on trains from October to January for the festivals. The existing trains cannot accommodate this increase in passenger demand.
Ans	× 1. Neither I nor II is a possible reason.
	× 2. Only I is a possible reason.
	★ 4 Both I and II are possible reasons.
Q.29	KBWJ is related to MZZG in a certain way based on the English alphabetical order. In the same way, OXCD is related
	to QVFA. To which of the following options is STIX related, following the same logic?
Ans	X 1. VRKU
	✓ 2. URLU
	X 3. VSLT

Which of the following Sustainable Development Goals is highlighted as needing targeted efforts due to its score being below 50?

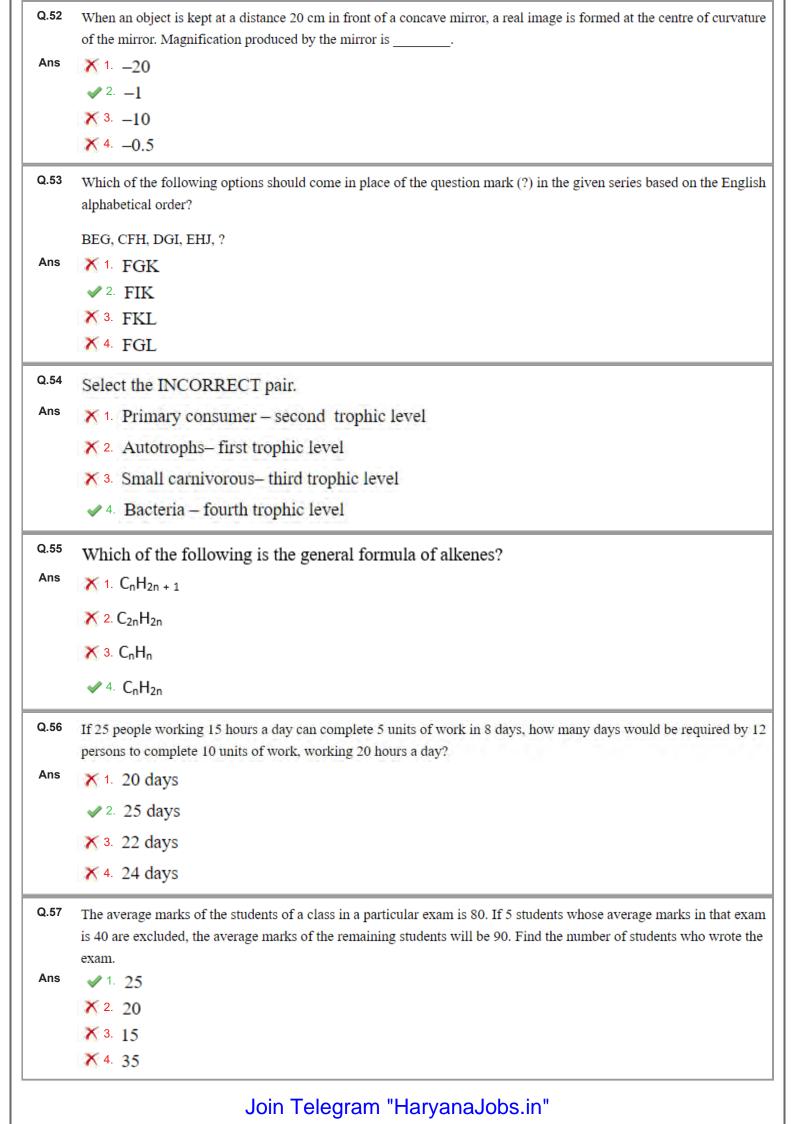
Q.25

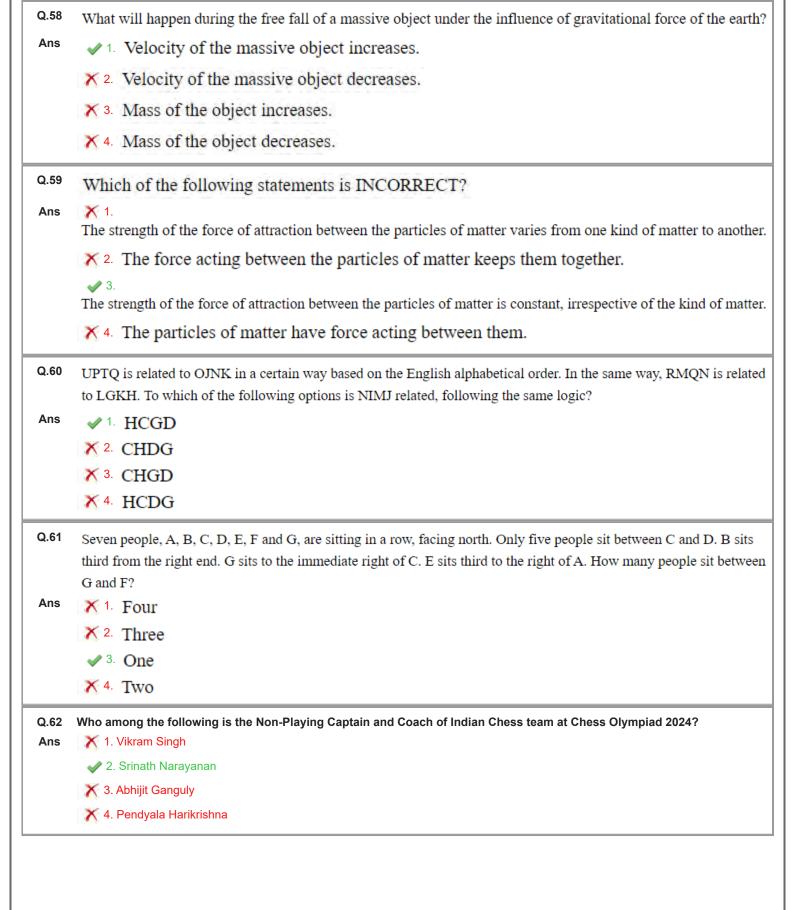
Q.30	A total of Arjun awards were conferred during the National Sports Awards 2023.
Ans	X 1.21
	★ 2. 31
	√ 3. 26
	4. 18
Q.31	Two trains, each 250 m in length, are running on parallel lines in opposite directions at speeds of 90 km/h and 60 km/h
	respectively. In how many seconds will they cross each other completely?
Ans	1. 15 sec
	× 2. 18 sec
	× 3. 10 sec
	√ 4. 12 sec
Q.32	In May 2024, DRDO handed over defence technology projects to IIT Bhubaneswar.
Ans	✓ 1. nine
	X 2. seven
	X 3. five
	X 4. eleven
Q.33	Which two numbers should be interchanged to make the given equation correct?
	$72 - 56 + (13 + 19) \times 2 - 95 \div 5 + 17 = 76$
	(Note: Interchange should be done of the entire number and not individual digits of a given number.)
Ans	× 1. 19 and 5
	✓ 2. 19 and 17
	× 3. 17 and 56
	× 4. 13 and 17
Q.34	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 pair does not belong to that group?
	Note: The odd are cut is not been don't be much on of concentrative much singulation in the letter chuston)
Ans	(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)
Allo	1. QV – SX
	× 2. KP – MR
	X 4. BG − DI
Q.35	In a certain code language, 'FEND' is coded as '9735' and 'FEUD' is coded as '3769'. What is the code for 'U' in the
	given code language?
Ans	X 1. 7
	✓ 2. 6
	× 3. 3
	× 4. 9





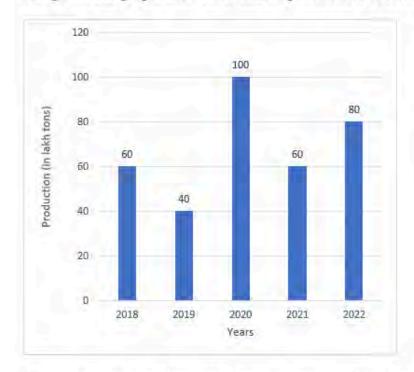
Q.46 If + means -, - means ×, × means ÷, ÷ means +, then what will come in place of the question mark (?) in the following equation? $62 - 2 \div 7 + 14 \times 7 = ?$ Ans **1.** 129 × 2. 133 X 3. 143 X 4. 131 Q.47 The sides of a rectangle are in the ratio 8: 10 and its perimeter is 90 cm. The area of this rectangle is: Ans X 1. 550 cm² × 2. 450 cm² 3. 520 cm² ✓ 4. 500 cm² Q.48 Which of the following is formed by the action of chlorine on dry slaked lime? Ans X 1. Calcium oxide X 2. Hydrochloric acid X 3. Calcium chloride 4 Bleaching powder Q.49 A sum of money doubles itself at a certain rate of compound interest in 12 years when the interest is compounded annually. In how many years will it become eight times of itself? Ans **1.36** X 2. 12 X 3. 48 X 4. 24 Q.50 Which of the following is NOT an example of homogenous mixture? Ans X 1. Copper sulphate powder in water X 2. Sugar dissolved in water X 3. Salt dissolved in water 4. Oil in water Q.51 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of :: ? X: 125 :: 13 : Y Ans X = 12, Y = 173 \checkmark 2. X = 11, Y = 173X = 11, Y = 169 \times 4. X = 12, Y = 169 Join Telegram "HaryanaJobs.in"





Q.63 Study the following graph and answer the given question.

The given bar graph shows the annual production of rice in a state during the period 2018 to 2022.



What is the total production of rice (in lakh tons) for the years 2020, 2021 and 2022 together?

Ans

- X 1. 270
- 2. 240
- X 3. 250
- X 4. 260

Q.64 Which of the following electrolytes is used in the electrolytic refining of copper?

Ans

- ★ 1 Sodium sulphate
- × 2. Cuprous chloride
- X 3. Copper oxide
- 4. Copper sulphate

Q.65 Which Sikkimese craftsman, renowned for his skill in creating the 'Sumak Thyaktuk' (Lepcha traditional hat), was awarded the Padma Shri in 2024 for his contributions to art and cultural heritage?

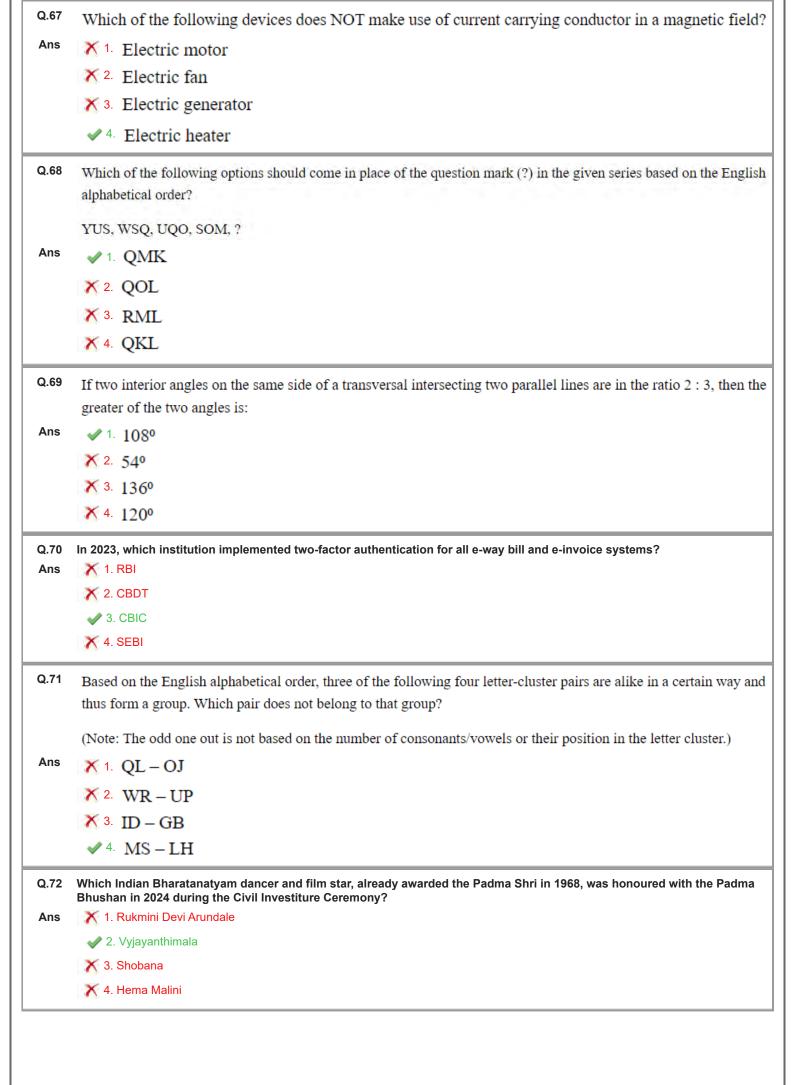
Ans

- 1. Jordan Lepcha
- X 2. Karma Wangchuk
- X 3. Sonam Tshering
- X 4. Tashi Namgyal

Q.66 The resistance of a 10 m long copper wire is R ohm. What will be the resistance of a 5 m long copper wire?

Ans

- √ 1. 0.5R ohm
- 2. R ohm
- 🟋 3. 5R ohm
- 4. 2R ohm



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Q.73 Who was appointed as the Director General of the Narcotics Control Bureau on 17 September 2024?
Ans
        1. Anurag Garg
       X 2. Sanjay Arora
       X 3. Samant Goel
       X 4. Rakesh Asthana
Q.74
       If 18:24::24:: y, what is the value of y?
      X 1. 36
Ans
      × 2. 18
       X 3. 24
        √ 4. 32
Q.75
       In the word MASTER, each consonant is changed to the letter immediately preceding it in the English alphabetical
       order and each vowel is changed to the letter immediately succeeding it in the English alphabetical order. How many
       consonants are present in the new group of letters thus formed?
Ans

✓ 1. Six

       × 2. Four
       X 3. Three
       X 4. Five
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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	25/11/2024
Test Time	4:30 PM - 5:30 PM
Subject	ALP Stage 1

^{*} Note

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

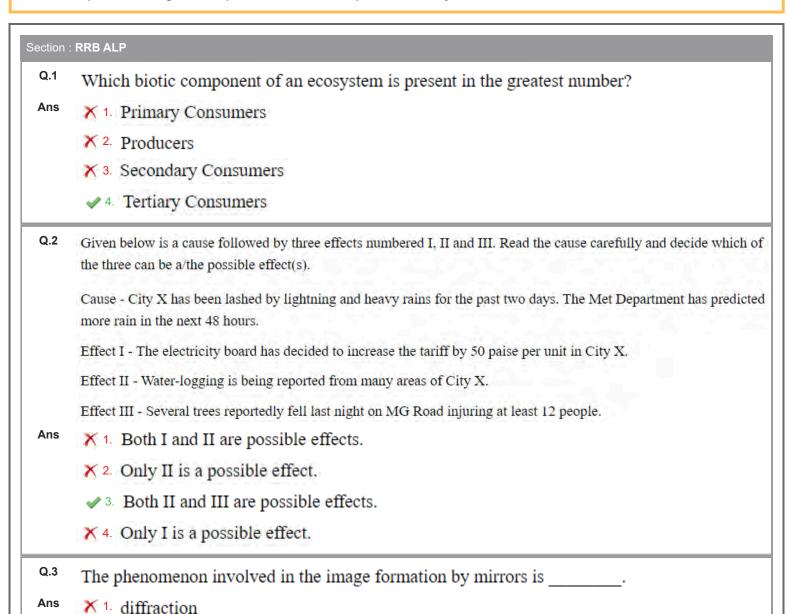
1. Options shown in green color with a tick icon are correct.

X 2. refraction

√ 3. reflection

¾ interference

2. Chosen option on the right of the question indicates the option selected by the candidate.

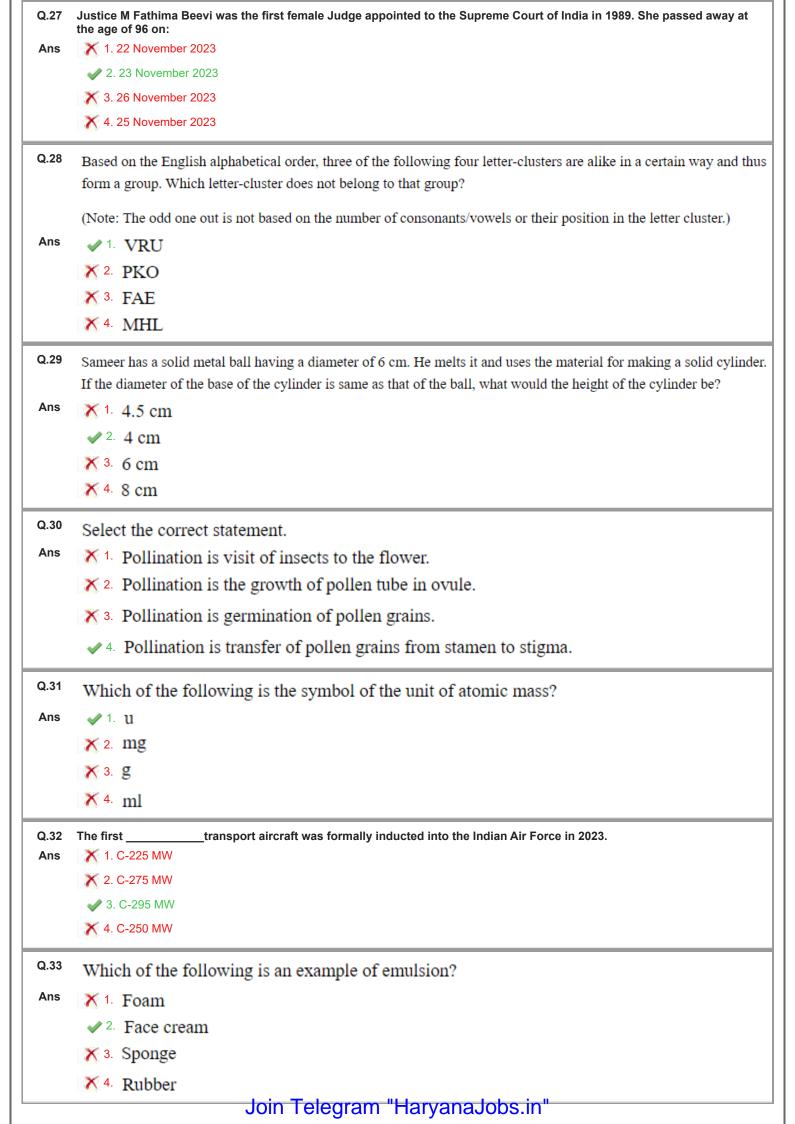


Q.4 If three numbers are in the ratio 5:6:8 and their sum is 3800, then the greatest number will be: Ans X 1 1200 × 2. 2000 X 3. 1000 4. 1600 Q.5 A, B, C, D, E and F are sitting around a circular table facing the centre. Only two people sit between F and C. D sits to an immediate right of F. A is an immediate neighbour of B and C. What is the position of E with respect to B? Ans X 1. Immediate right X 2. Second to the left 3. Immediate left ✓ 4. Third to the right Q.6 Which of the following options should come in place of the question mark (?) in the given series to make it logically complete? 13, 24, 46, 79, 123,? Ans X 1. 176 × 2. 172 √ 3. 178 × 4. 174 **Q.7** A man invested $\frac{1}{2}$ of his income at 7% simple interest, $\frac{1}{4}$ of his income at 8% simple interest, and the remainder of his income at 10% simple interest. If the total interest at the end of one year was ₹561, what was his initial income? Ans **X** 1. ₹4,500 √ 2. ₹6,600 **X** 3. ₹7,500 **X** 4. ₹3,000 Q.8 In a certain code language, 'ALSO' is coded as '8693' and 'SALE' is coded as '2836'. What is the code for 'E' in the given code language? Ans X 1. 9 X 2. 3 √ 3. 2 X 4. 8 Q.9 Express the expression below as a perfect square: a²+9b²+c²-6ab+6bc-2ac $(a-3b-2c)^2$ \times 2. $(a+3b+c)^2$ ✓ 3. (a-3b-c)² \times 4. $(a-3b+c)^2$ Join Telegram "HaryanaJobs.in"

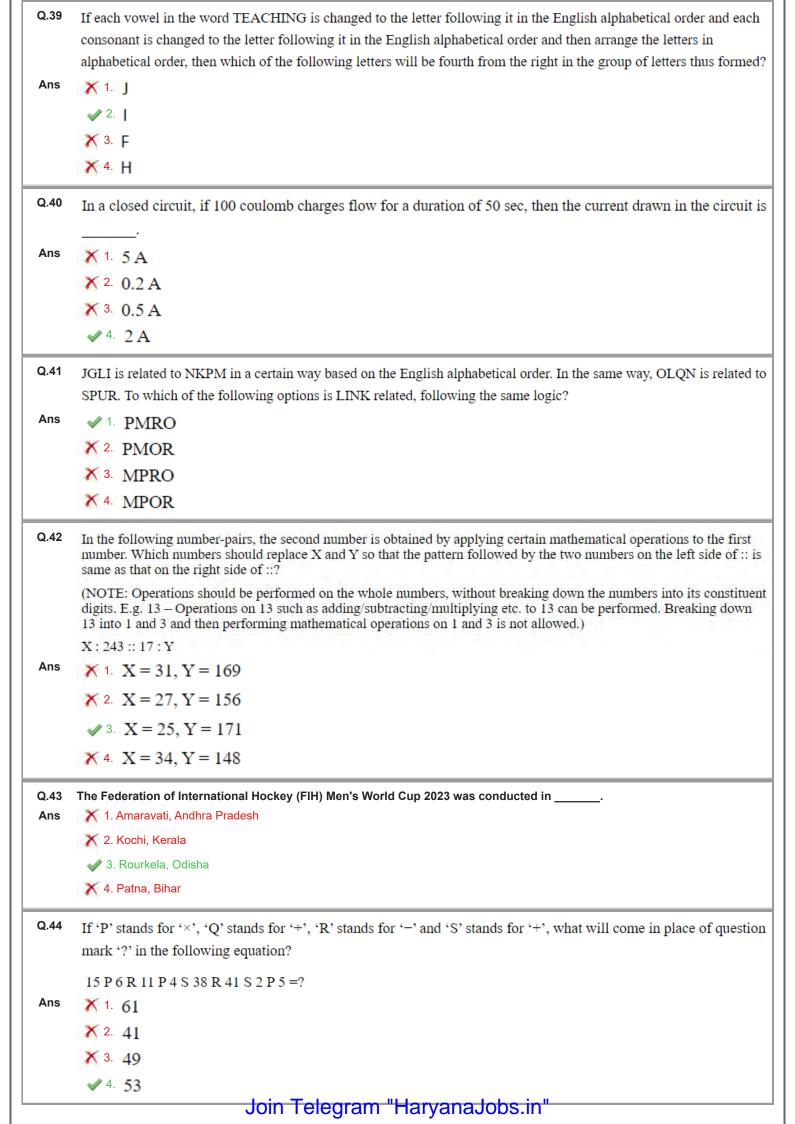
Q.10	The sum of the ages of 5 children born at intervals of 2 years each is 40 years. What is the age of the eldest child?
Ans	1. 10 years
	× 2. 14 years
	× 3. 16 years
Q.11	True greenesites discounts of 200/ and 250/ an a deal are equivalent to a single discount of
Ans	Two successive discounts of 30% and 35% on a deal are equivalent to a single discount of:
Alla	★ 1. 60%★ 2. 65%
	✓ 3. 54.5%
	× 4. 55.5%
0.40	
Q.12	Harmful metabolic wastes from our body are removed by the biological process called:
Ans	X 1. defecation
	× 2. transportation
	× 3. secretion
	√ 4. excretion
Q.13	The Jivitputrika festival, which was in the news for an incident in September 2024, is primarily celebrated in which of the following states?
Ans	1. West Bengal
	X 2. Odisha
	X 4. Gujarat
Q.14	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	ZTQ, XRO, VPM, TNK, ?
Ans	× 1. RKL
	× 2. RML
	X 4. SMK
Q.15	Aruna borrowed a sum of ₹9,000 from Jayshree at 10% per annum on compound interest, compounded annually. Find
	the total amount paid by Aruna after 2 years to clear all the dues.
Ans	× 1. ₹10,098
	✓ 2. ₹10,890
	× 3. ₹10,980
	× 4. ₹10,089

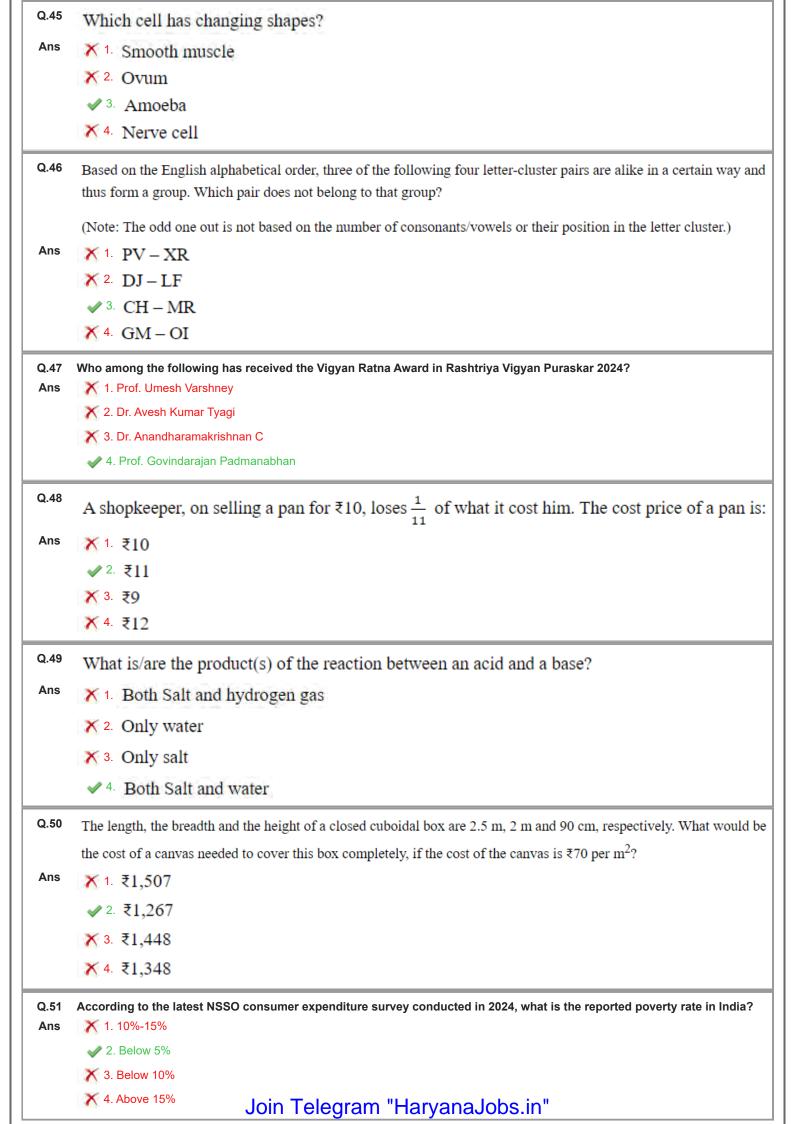
Q.16 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (NOTE: Operations 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.) X:529::21:Y Ans \times 1. X = 14, Y = 529 \times 2. X = 12, Y = 729 X = 11, Y = 625 \checkmark 4. X = 18, Y = 676Q.17 There is a 10 m tall tower between two parallel roads. The angles of depression of the roads from the top of the tower are 30° and 45° respectively. Approximately, how far are the roads from each other? Ans X 1 30.82 m √ 2. 27.32 m X 3. 29.56 m X 4. 26.44 m Q.18 The total count of prime numbers less than 50 is: Ans X 1. 17 2. 15 X 3. 14 X 4. 13 Q.19 Town A lies to the north of Town B. Town C lies to the south of Town A. Town D lies to the northeast of Town C. Town E lies to the south of Town D. Town B lies to the northwest of Town E. Town B lies to the south of Town C. What is the position of Town E with respect to Town C? Ans 1 Northwest Northeast 3. Southwest 4. Southeast Q.20 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order? CGM, EIO, GKQ, IMS, ? Ans 1. KOX 2. KNY 3. KOV

Q.21	The kinetic energy of a body of mass 2 kg, which is moving with the constant velocity 5 m/sec, is
Ans	★ 1. 100 joules
	× 3. 10 joules
	× 4. 50 joules
Q.22	Every trait in an organism is influenced by which of the following?
Ans	★ 1. Only maternal DNA
	× 2. By both maternal and paternal DNA equally
	× 4. Only paternal DNA
	parant 70 - announce and the country to
Q.23 Ans	Who among the following is India's youngest Olympic medallist as of August 2024? 1. Manu Bhaker
	X 2. Lakshya Sen
	✓ 3. Aman Sherawat
	X 4. Neeraj Chopra
Q.24	When an object is kept in front of a concave mirror of focal length 10 cm, a real image is formed at a distance of 20 cm
	in front of the mirror. Here, the object distance is
Ans	X 1. −5 cm
	✓ 2. –20 cm
	× 3. −10 cm
	× 4. −30 cm
Q.25	The salaries of P and Q together amount to ₹2,000. P spends 95% of his salary and Q spends 85% of his salary. If now
Ans	their savings are the same, then P's salary is:
Alls	
	X 2. ₹500
	X 3. ₹1,250
	× 4. ₹750
Q.26	Arpita buys 9 oranges and 8 bananas for ₹276. When the cost of an orange is decreased by 10% and that of a banana
	remains the same, then the cost of 5 oranges and 10 bananas is ₹210. What is the original cost of 3 oranges and 4 bananas?
Ans	 ✓ 1. ₹108
	× 2. ₹120
	× 3. ₹116
	X 4. ₹123



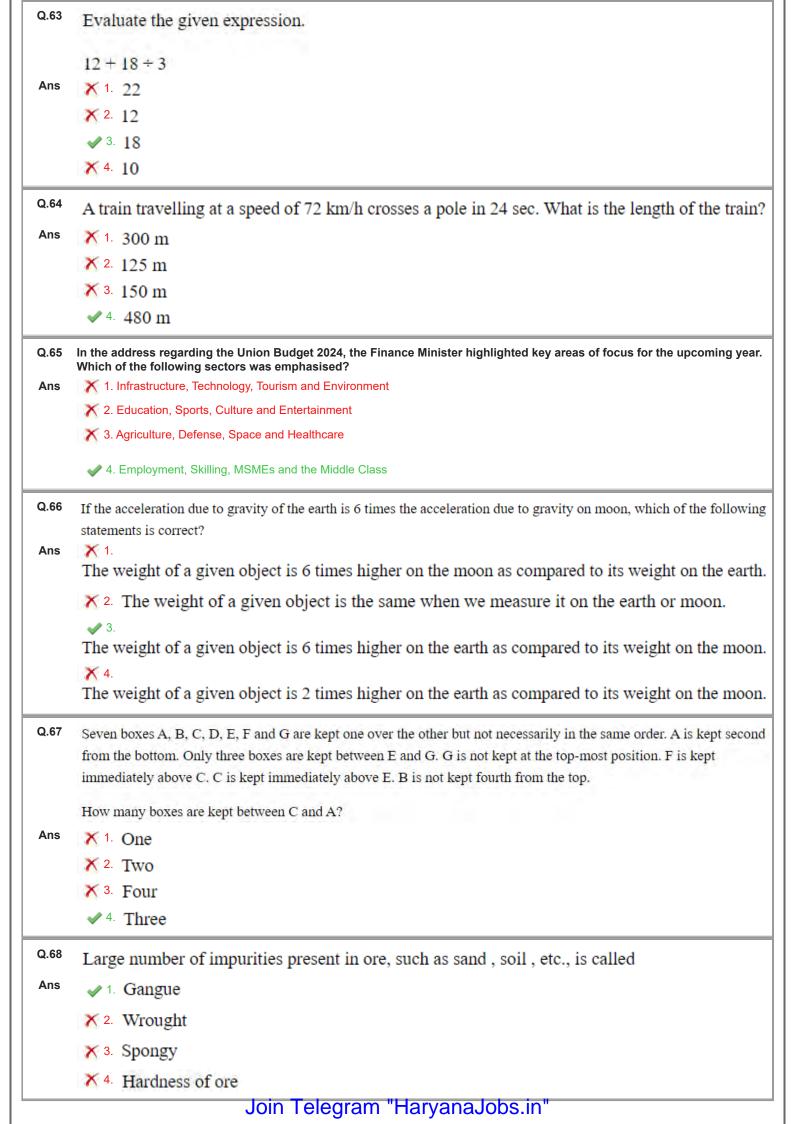
Q.34	Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the
	same pattern.
	PK-RM-TU
	HC-JE-LM
Ans	1. MH-OJ-PR
	X 3. MG-OJ-QR
	X 4. MH-OJ-QS
Q.35	A car travels 80 km at the speed of 20 km/h and the next 30 km at the speed of 30 km/h. What is its average speed?
Ans	★ 1. 30 km/h
	× 2. 20 km/h
	★ 3. 40 km/h
	✓ 4. 22 km/h
Q.36	Seven people, B, C, D, E, F, G, and K, are sitting in a straight line, facing north. No one sits to the right of G. Only
	three people sit between G and E. Only two people sit between E and F. C sits third to the left of D. K sits to the
	immediate right of D.
	How many people sit between B and F?
Ans	✓ 1. Three
	× 2. One
	X 3. Two
	× 4. Four
Q.37	What is the function of xylem?
Ans	X 1. Conduction of food
	× 2. Conduction of protein
	✓ 3. Conduction of water and minerals
	X 4. Conduction of lipid
0.20	
Q.38	Carbon, in all its allotropic forms, burns in oxygen to give
Ans	★ 1 carbon monoxide
	✓ 2. carbon dioxide
	X 3. carbonic acid
	× 4. methane

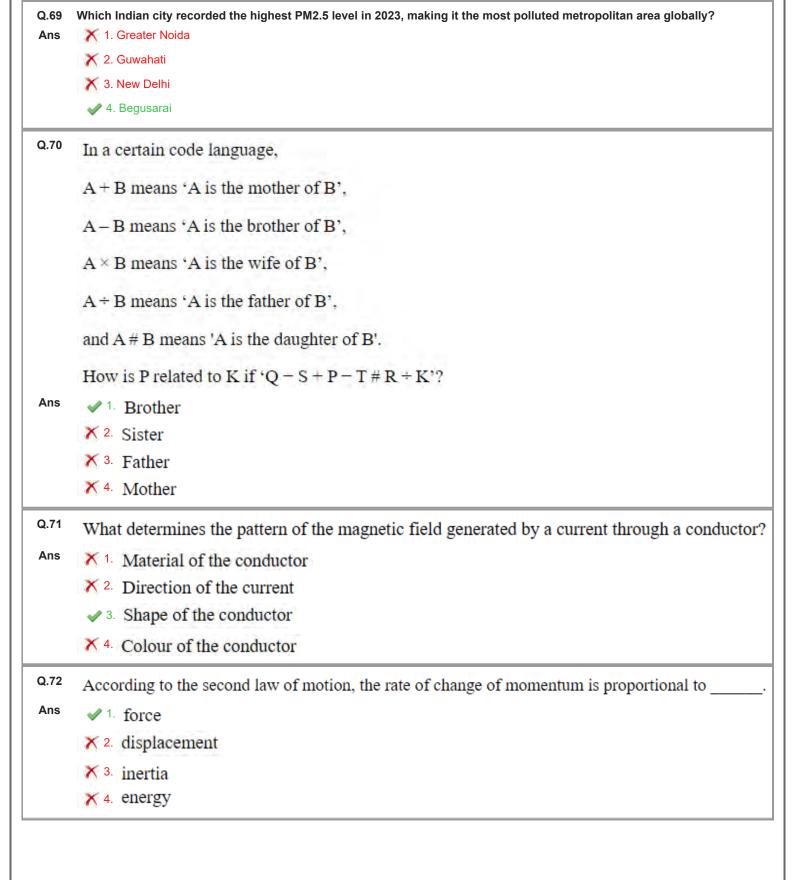




Q.52 In a quadrilateral PQRS, if the sum of measures of angles ∠Q and ∠S is 150° while the measures of angles ∠P and $\angle R$ are in ratio 4:3, then the measure of $\angle R$ will be: Ans X 1. 120° √ 2. 90° X 3. 210° X 4. 150° Q.53 The average monthly salary of a person for the months of January, February, March and April is ₹8,000 and that for the months of February, March, April and May is ₹8,500. If his salary for the month of May is ₹6,500, find his salary for the month of January. Ans √ 1. ₹4,500 **X** 2. ₹5,000 **X** 3. ₹2,500 **X** 4. ₹3,000 Q.54 Which legendary musician, known for his work in films like 'Amar Akbar Anthony' and 'Bobby', was awarded the Padma Bhushan on Republic Day 2024? Ans 1. Pyarelal Sharma 2. Laxmikant Shantaram Kudalkar 🟋 3. RD Burman X 4. Ilaiyaraaja Q.55 In a certain code language, 'towards the end' is coded as 'mb rh gp' and 'end it here' is coded as 'hk mb bl'. What is the code for 'end' in the given code language? Ans 🗶 1. gp × 2. hk √ 3. mb X 4. bl Q.56 Which two numbers should be interchanged to make the given equation correct? $56 + 18 - 11 \times 3 + 4 \times (66 \div 2) + 22 = 151$ (Note: Interchange should be done of entire number and not individual digits of a given number.) Ans X 1. 3 and 2 √ 2. 11 and 22 X 3. 18 and 11 X 4. 56 and 66

Q.57	Study the	given table and ans	wer the question the	nat follows.
	The table	depicts the number	of tickets sold on	Friday and Saturday by cash and online mode for a cricket match.
	Days	Number of tickets	Number of tickets	
		sold (cash)	sold (online)	
	Friday	725	525	
	Saturday	1000	3000	
	How many	y tickets were sold	in total on Friday l	by cash and online together?
Ans	X 1. 115			Value and the state of the stat
	✓ 2. 12.			
	× 3. 135			
	× 4. 105			
Q.58		vater molecules are r	equired to react with	three molecules of the iron atom to form Fe ₃ O ₄ ?
Ans	√ 1. 4			
	2. 3			
	3. 1			
	X 4. 2			
Q.59	Which of	f the following ex	xamples shows t	hat particles of matter have enough space between them?
Ans		iling of water	•	
				to Barbara to the source
				ly distributed in water
	X 3. Bre	eaking of iron n	ail	
	🗙 4. Lig	ghting incense s	tick	
Q.60	The HCI	F of 450, 1500 a	nd 1650 is:	
Ans	X 1. 50			
	× 2. 200	0		
	× 3. 100			
	✓ 4. 150			
Q.61				is changed to the letter immediately succeeding it in the English
	-		-	ers thus formed is rearranged according to the English alphabetical rearranged group of letters?
Ans	1. E	en letter is mist to t	ne right in the new	realranged group of retters:
	X 2. D			
	X 3. B			
	✓ 4. Z			
	₩ 4. Z			
Q.62	The aver	age of the first	five multiples o	f 3 is:
Ans	√ 1. 9			
	× 2. 3			
	3 . 12			
	X 4. 15			
		J	oin Telegrar	n "HaryanaJobs.in"





Q.73 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements. Statements: All doors are gates. No door is a lock. Conclusion: (I) Some locks are gates. (II) No lock is a door. Ans 1. Only conclusion (I) follows. 2. Only conclusion (II) follows. 3. Both conclusions (I) and (II) follow. Y 4. Neither conclusion (I) nor (II) follows. Q.74 If each of the letters in the word COINAGE is arranged in the English alphabetical order, then how many letters are there in the English alphabetical series between the letter which is fourth from the left and the one which is third from the right in the new letter-cluster thus formed? Ans 1. Two X 2. Five X 3. Four ✓ 4. One Q.75 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements. Statements: Some microphones are speakers. No speaker is a piano. Conclusions: (I) No microphone is a piano. (II) Some speakers are microphones. Ans 1. Neither conclusion (I) nor (II) follows 2. Only conclusion (I) follows 3. Both conclusions (I) and (II) follow 4. Only conclusion (II) follows



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Test Date	26/11/2024
Test Time	9:00 AM - 10:00 AM
Subject	ALP Stage 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 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 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

1. VS-PU

✓ 2. YV-SW

X 3. RO-LQ

X 4. TQ-NS

Q.2 Which is the internal energy reserve in plants?

Ans

X 1. Glycogen

2. Starch

X 3. Glucose

X 4. Sucrose

Q.3 If the mode of the following data is 7, then find the value of k.

2, 4, 6, 7, 5, 6, 10, 6, 7, 2k + 1, 9, 7, 13

Ans

√1. 3

X 2. 6

X 3. 2

X 4. 4

Q.4 Out of his total income, Sanjay spends 20% on house rent and 70% of the rest on household expenses. If he saves ₹1,800, then his total income is:

Ans

X 1. ₹10,000

√ 2. ₹7,500

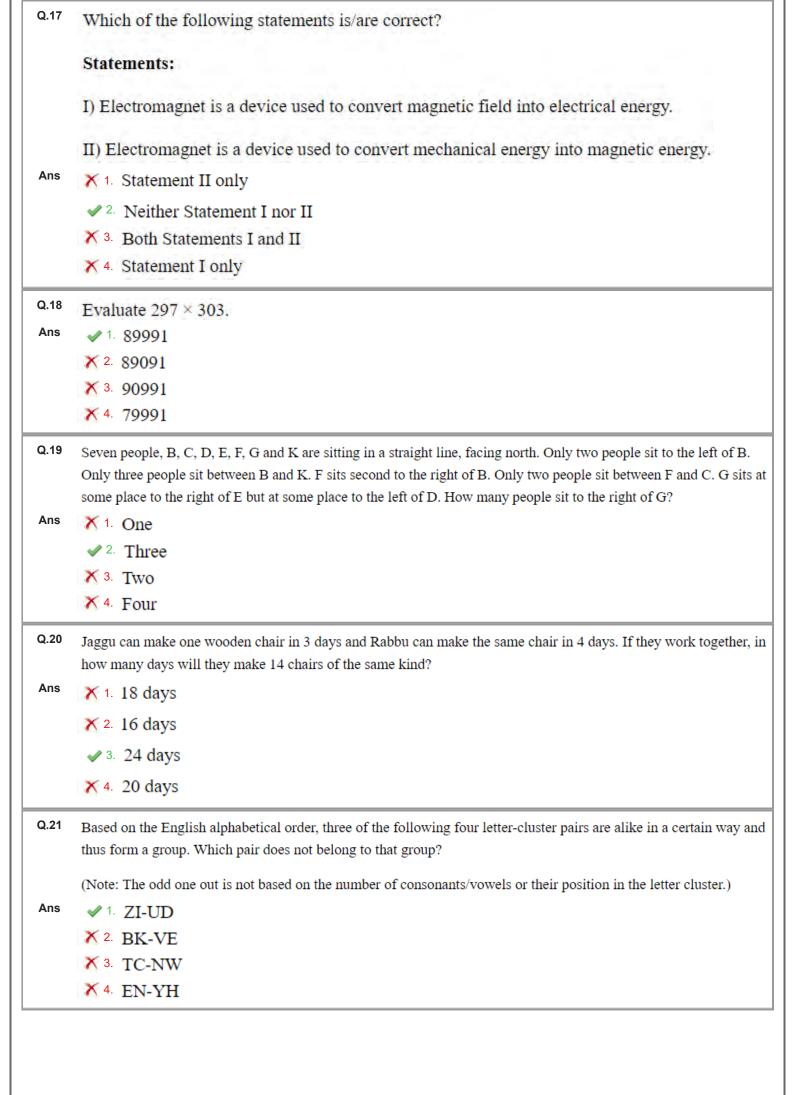
× 3. ₹8,000

X 4. ₹9,000

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Q.5	In which month was the Guru Kelucharan Mohapatra Awards 2024 organised by the Srjan-Guru Kelucharan Mohapatra Odissi Nrityabasa?
Ans	X 1. October
	✓ 2. September
	X 3. August
	X 4. July
Q.6	Which of the following options should come in place of the question mark (?) in the given series based on the English
	alphabetical order?
	CFI, LOR, UXA, DGJ,?
Ans	X 1. MOQ
	× 2. LOR
	× 3. LNP
	✓ 4. MPS
Q.7	The annual time of subject of the following common de in the obligation allest annual and 0
	For preparation of which of the following compounds is the chlor-alkali process used?
Ans	✓ 1. NaOH + Cl ₂
	2. NaHCO ₃
	3. Na ₂ CO ₃
	4. NaCl
Q.8	The work done by a constant force of 5 Newton acting on a body is 5 joules. The displacement of the body in the
	direction of the applied force is
Ans	№ 1. 100 m
	× 2. 10 m
	✓ 3. 1m
	№ 4. 1000 m
Q.9	The LCM of 24, 42 and 56 is:
Ans	X 1. 186
	✓ 2. 168
	× 3. 618
	× 4. 816
Q.10	Which of the following options should come in place of the question mark (?) in the given series based on the English
	alphabetical order?
	HLA, BFU, VZO, PTI,?
Ans	1. JMB
	✓ 2. JNC
	× 3. JMC
	X 4. JNB

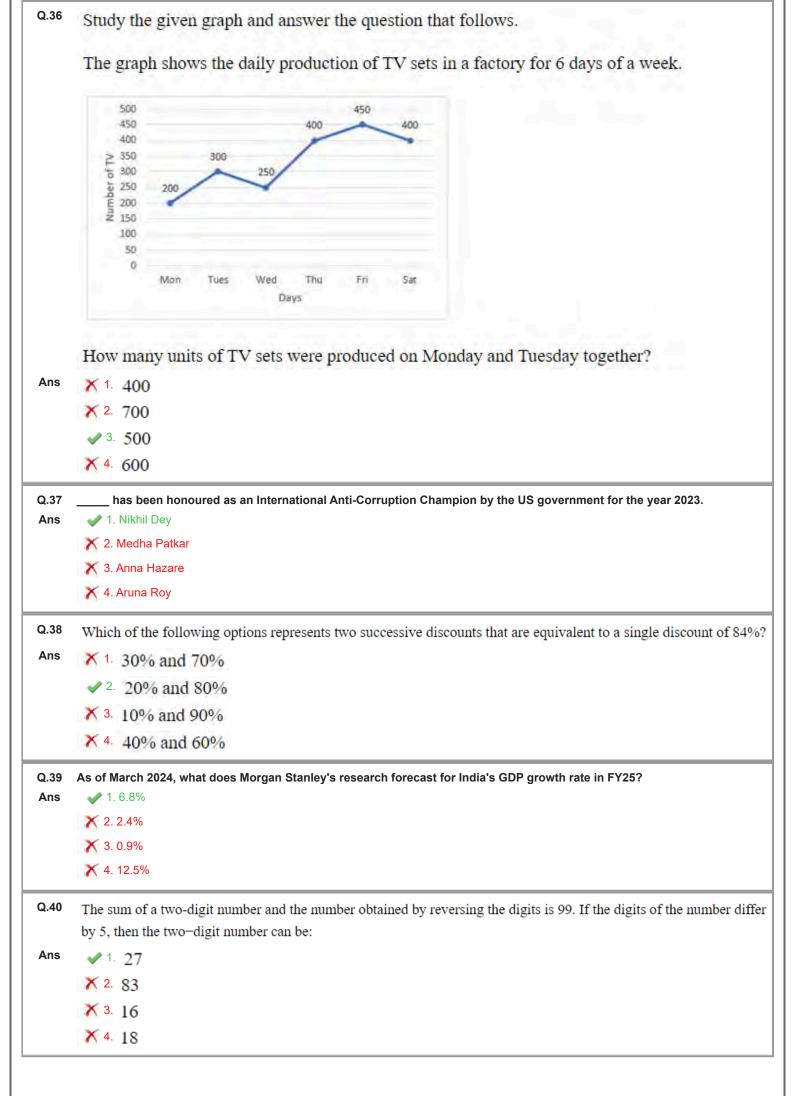
Q.11	In a certain code language, 'PLOW' is coded as '7164' and 'WOLF' is coded as '1564'. What is the code for 'F' in the
Ans	given code language?
70	X 1. 6 X 2. 1
	✓ 3. 5
	× 4. 7
Q.12	Magnification produced by a convex mirror for a given object of height 5 cm is 0.2. Here, the height of the image is
Ans	 ★ 1. 10 cm
	× 2. 1.5 cm
	× 3. 0.4 cm
Q.13	Find the total surface area of a cylinder whose radius of base is 7 cm and height is 12 cm.
Ans	\times 1. $303\pi cm^2$
	✓ 2. 266π cm ²
	\times 3. $208\pi \ cm^2$
	\times 4. $280\pi cm^2$
Q.14	In the word OPTICAL, each vowel is changed to the letter immediately succeeding it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters is repeated twice in the new group of letters thus formed?
Ans	✓ 1. B
	X 2. P
	※ 3. O
	× 4. K
Q.15	Evaluate the given expression.
	$13 - 12 \div 4 \times 2$
Ans	X 1. 8
	× 2. 6
	√ 3. 7
	X 4. 9
Q.16	The equivalent resistance of the two resistors of resistance R ohm each connected in series is
Ans	1. R/2 ohm
	× 2. 3R ohm
	★ 4. 2/R ohm

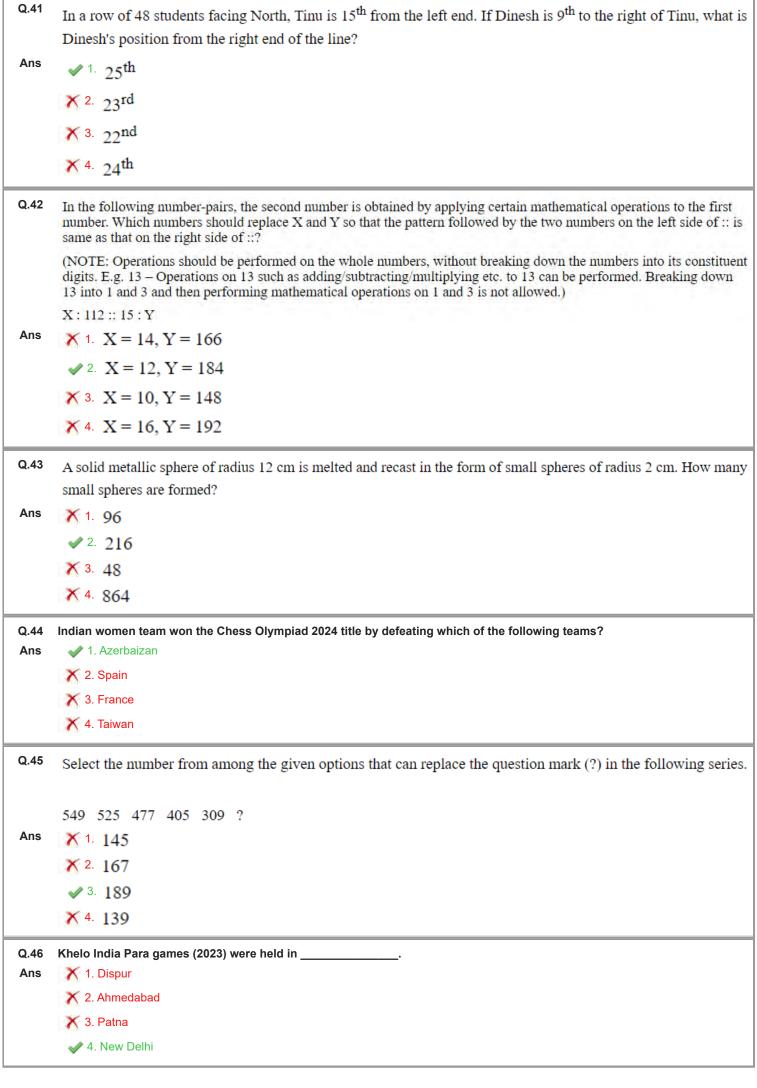


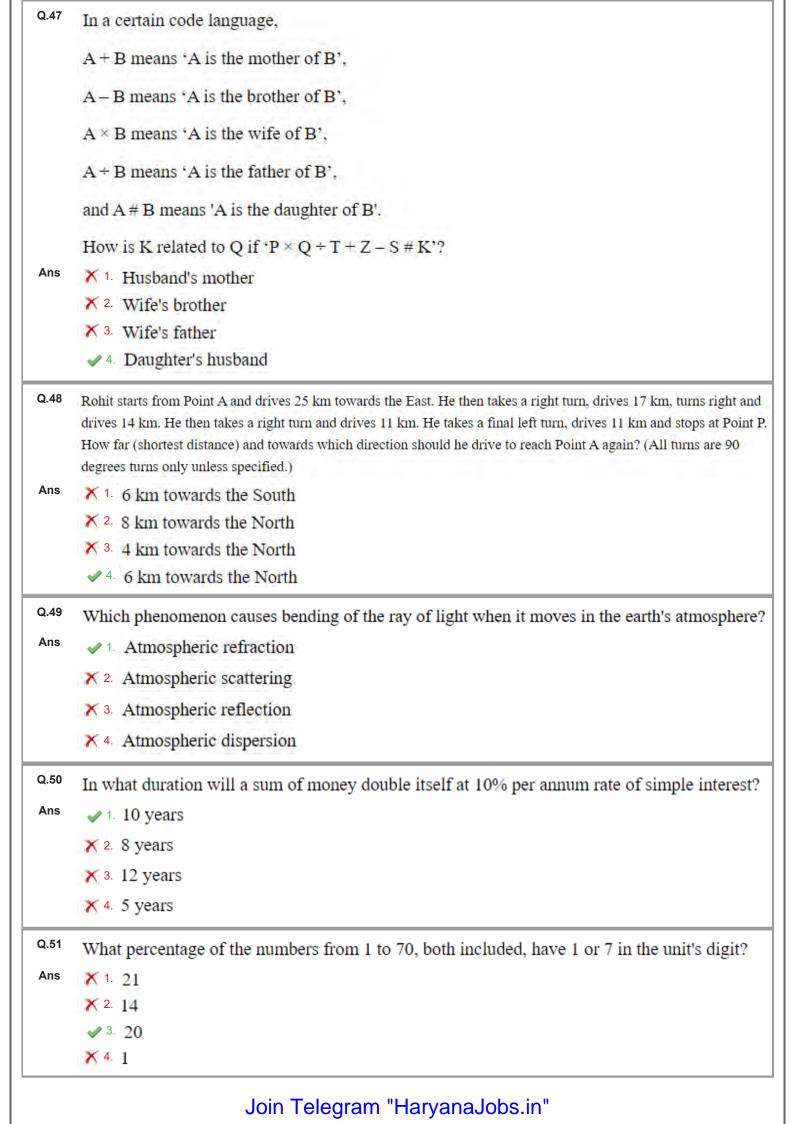
Q.22 If a regular polygon has 20 diagonals, then the number of sides of this polygon is: Ans X 1. 5 X 2. 6 **√** 3. **8** X 4. 10 Q.23 Which of the following options does NOT represent a property of suspensions? Ans 1 The particles of a suspension scatter a beam of light passing through it. X 2. A suspension is a heterogeneous mixture. 3. The particles of a suspension cannot be seen by the naked eyes. X 4. A suspension is unstable in nature. Q.24 If + means -, - means \times , \times means \div , \div means +, then what will come in place of the question mark (?) in the following equation? $22 - 5 \div 3 + 12 \times 3 = ?$ Ans X 1. 111 2. 109 X 3. 112 X 4. 110 Q.25 Shailesh Nayak has been conferred Padma Shri award in 2024 in which field? 1. Science and Engineering Ans X 2. Medicine X 3. Sports X 4. Literature & Education Q.26 In a certain code language, 'climb the mountains' is coded as 'js bg md' and 'climb the tree' is coded as 'bg cx js'. What is the code for 'tree' in the given code language? Ans 🟋 1. bg ✓ 2. cx X 3. js X 4. md Q.27 In which of the following types of reaction is there an exchange of ions between the reactants? Ans ✗¹ Decomposition X 2. Addition reaction 3. Double displacement reaction A. Disproportion reaction

Q.28	Other than the nervous system, which other system helps in control and coordination in our body?
Ans	× 1. Excretory system
	✓ 2. Endocrine system
	× 3. Respiratory system
	★ 4. Digestive system
Q.29	A car can cover 275 km in 5 hours. If its speed is reduced by 5 km/hr, then how much time will the car take to cover a distance of 250 km?
Ans	№ 1. 4 hr 30 min
	× 2. 6 hr
	× 3. 5 hr 30 min
Q.30	A diver rowing at the speed of 3 km/h in still water takes double the time going 50 km upstream compared to going 50 km downstream. The speed of the diver against the stream is:
Ans	\times 1. $\frac{4}{3}$ km/h
	× 2. 1 km/h
	$\frac{7}{3}$ km/h
	✓ 4. 2 km/h
Q.31	The successful automotive trials of the Zorawar light tank on 13 September 2024 were an important milestone for India's defence sector. Which organisation is responsible for developing this light tank?
Ans	✓ 1. Defence Research and Development Organisation (DRDO)
	2. Hindustan Aeronautics Limited (HAL)
	X 3. Indian Army
	4. Bharat Electronics Limited (BEL)
Q.32	The draft of the 'Telecommunications (Administration of Digital Bharat Nidhi) Rules, 2024' was published for public consultation on which date?
Ans	1. 1 August 2024
	X 2. 30 June 2024
	X 3. 5 September 2024
	√ 4. 4 July 2024

Q.33	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.
	Statements:
	All ropes are chains.
	All chains are strings.
	Conclusions:
	(I) All strings are ropes.
	(II) All ropes are strings.
Ans	✓ 1. Only conclusion (II) follows
	× 2. Only conclusion (I) follows
	X 3. Both conclusions (I) and (II) follow
	× 4. Neither conclusion (I) nor (II) follows
Q.34	ACE is related to BDF in a certain way. In the same way, GIK is related to HJL. To which of the following options is MOQ related, to following the same logic?
Ans	₹ 1. OPQ
	✓ 2. NPR
	X 3. NPS
	X 4. NOP
Q.35	Which of the following does NOT increase the rate of evaporation?
Ans	✓ 1. Decrease in temperature
	× 2. Increase in surface area
	X 3. Increase in wind speed
	X 4. Decrease in humidity

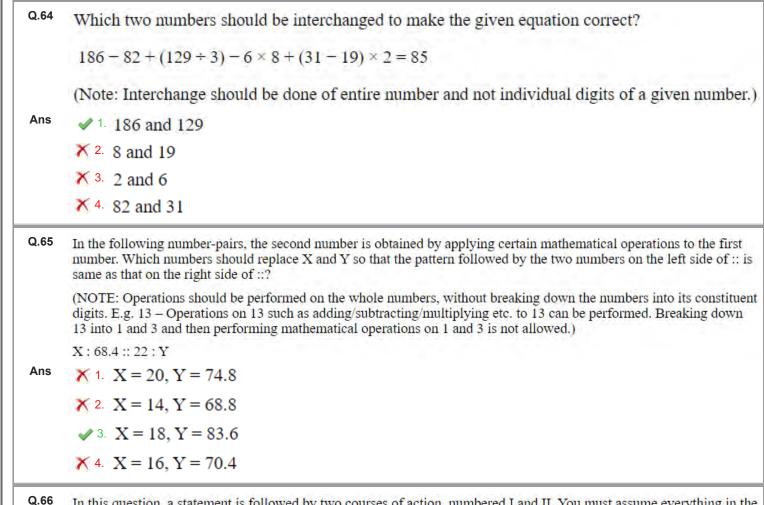






Who among the following participated in the United Nations 'World Climate Action Summit (COP28)' in Dubai? Q.52 Ans 1. Ram Nath Kovind 2. Narendra Modi X 3. Jagdeep Dhankhar \chi 4. Droupadi Murmu Q.53 Which of the following lacks membrane? Ans ↑ Plant cell X 2. Fungi cell 3. Viruses X 4. Animal cell Q.54 If a : b = 3 : 2 and b : c = 3 : 2, then a : b : c = ?Ans √ 1. 9:6:4 X 2. 9:4:6 X 3. 6:3:4 X 4. 6:4:3 Q.55 A, B, E, F, L, M and P are sitting around a circular table, facing the centre. F sits second to the left of E. A sits third to the right of B. M sits third to the left of L. A sits to the immediate right of M. P is not an immediate neighbour of M. Who sits second to the left of F? Ans X 1. A X 2. M X 3. B √ 4. P Q.56 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern. JG-NK-RT EB-IF-MO Ans X 1. GD-KI-OQ 2. IF-MJ-QR 4. FC-JG-NO Q.57 Which Indian singer was awarded the Padma Bhushan award, one of India's highest civilian awards, for the first time in 2024? X 1. Asha Bhosle Ans 2. Usha Uthup X 3. Alka Yagnik X 4. Lata Mangeshkar

Q.58	If each vowel in the word HISTORY is changed to the letter preceding it in the English alphabetical order and each consonant is changed to the letter following it in the English alphabetical order, then how many vowels will be there in the group of letters thus formed?
Ans	X 1. 1
	× 2. 0
	× 3. 3
	✓ 4. 2
Q.59	Which part of the neuron is responsible for acquiring information?
Ans	✓ 1. Dendritic tip
	× 2. Axon
	X 3. Cell body
	× 4. Synapse
Q.60	The simplified value of 0.002×0.5 is:
Ans	× 1. 0.1
	2. 0.01
	3. 0.0001
	✓ 4. 0.001
Q.61	A tree breaks and falls to the ground such that its upper part is still partially attached to its stem. At what height did it
	break, if the original height of the tree was 24 m and it makes an angle of 30° with the ground?
Ans	X 1. 9 m
	× 2. 10 m
	X 3. 12 m
	✓ 4. 8 m
Q.62	The arithmetic mean of the observations 39, 49, 59, 60, 70, 80, 90, 93 and 90 is:
Ans	X 1. 79
	2. 78
	→ 3. 70
	× 4. 76
Q.63	When an empty bottle is closed air tight and pushed inside water it bounces back when it is released. This is because
	·
Ans	× 1 water does not exert force on an empty bottle
	2. gravitational force on a bottle is equal to the buoyant force of the water
	√ 3. upthrust of water on a bottle is greater than the gravitational force acting on the bottle
	X 4. gravitational force acting on the bottle is greater than the upthrust of water



Q.66 In this question, a statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the courses of action logically follow(s) for pursuing.

Statement:

Due to water pipeline work planned in Grant Road for the next 3 days, the road will be closed for traffic till further notice.

Courses of Action:

- (I) Traffic police should increase the number of personnel present at Grant Road to physically coordinate traffic diversion effectively.
- (II) Traffic police should issue a notification in major newspapers regarding traffic diversions and alternate routes that can be taken by the general public till the Grant Road closure continues.

Ans 1. Only II follows

X 2. Only I follows

✓ 3. Both I and II follow

X 4. Neither I nor II follows

Q.67 What is the valency of carbon?

Ans 🗸 1. Four

X 2. Six

X 3. Three

🗡 4. Two

Q.68	According to the law of constant proportion, what will be the correct ratio of obtained oxygen and hydrogen (O: H) after decomposition of 18 g water?
Ans	★ 1. 4:14
	√ 2. 16:2
	× 3. 2:16
	★ 4. 14 : 4
Q.69	Which of the following non-metals is a liquid?
Ans	X 1. Chlorine
	✓ 2. Bromine
	X 3. Fluorine
	X 4. Sulphur
Q.70	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.
	Statements:
	Some beds are tables.
	No tables are chairs.
	Conclusions:
	(I) All tables are beds.
	(II) Some chairs are beds.
Ans	★ 1. Only conclusion (II) follows.
	2. Both conclusions (I) and (II) follow.
	★ 4. Only conclusion (I) follows.
Q.71	Which of the following organisms does NOT show asexual reproduction by means of fission?
Ans	X 1. Plasmodium
	✓ 2. Earthworm
	× 3. Amoeba
	X 4. Leishmania
Q.72	A sells a bicycle to B at a profit of 20% and B sells it to C at a profit of 25%. If C pays ₹1,500, then what did A pay for
	it?
Ans	X 1. ₹1,125
	※ 3. ₹1,100
	X 4. ₹825

Q.73	Which of the following physical quantities represents the rate of change of velocity?
Ans	X 1. Speed
	× 2. Velocity
	√ 3. Acceleration
	X 4. Distance
Q.74	If each vowel in the word MARKETING is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order, then which of the following letters will be fourth from the left in the group of letters thus formed?
Ans	1. S
	№ 2. Q
	※ 3. F
	✓ 4. J
Q.75	Which of the following organisms is/are NOT unicellular?
Ans	1. Amoeba
	√ 2. Plants
	X 3. Paramoecium
	× 4. Chlamydomonas

2024/12/02-20:25:01



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	26/11/2024
Test Time	12:30 PM - 1:30 PM
Subject	ALP Stage 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 Given below is a cause followed by three effects numbered I, II and III. Read the cause carefully and decide which of the three can be a/the possible effect(s).

Cause - A major train accident occurred at Katpadi Junction last night, where seven bogies of G.T. Express derailed and fell across the tracks.

Effect I - Many trains on the Katpadi - Chennai route are running several hours late today.

Effect II - Long queues were seen at the railway ticket booking counters in Bangalore.

Effect III - Railways has decided to run two holiday special trains between Kolkata and Patna from October to December 2023.

Ans

- X 1. Both I and II are possible effects.
- ✓ 2. Only I is a possible effect.
- 3. Both II and III are possible effects.
- X 4. Only II is a possible effect.
- Q.2 If each vowel in the word PARKING is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter following it in the English alphabetical order, then which of the following letters will be third from the left in the group of letters thus formed?

Ans

X 1.

√ 2. S

X 3. O

X 4. J

Q.3 An article is sold for $\not\in x$ after offering two successive discounts of 25% and 8% on its marked price of $\not\in$ 500. The value of x is:

Ans

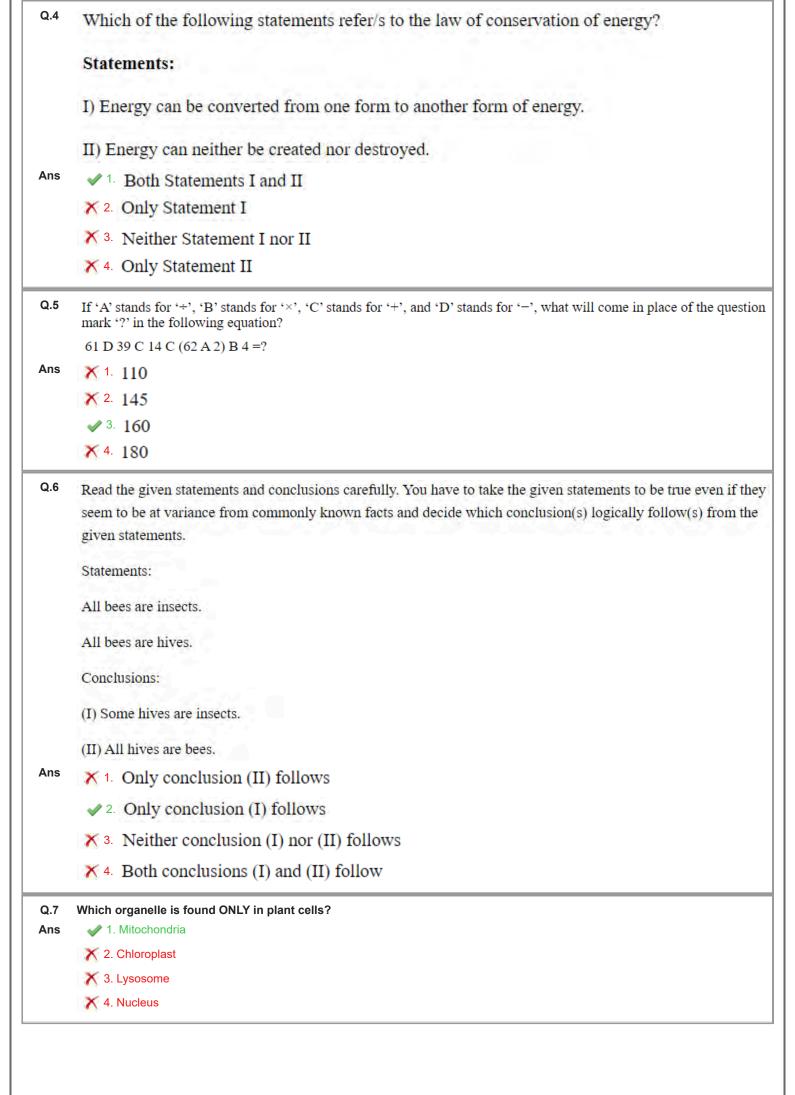
X 1. 285

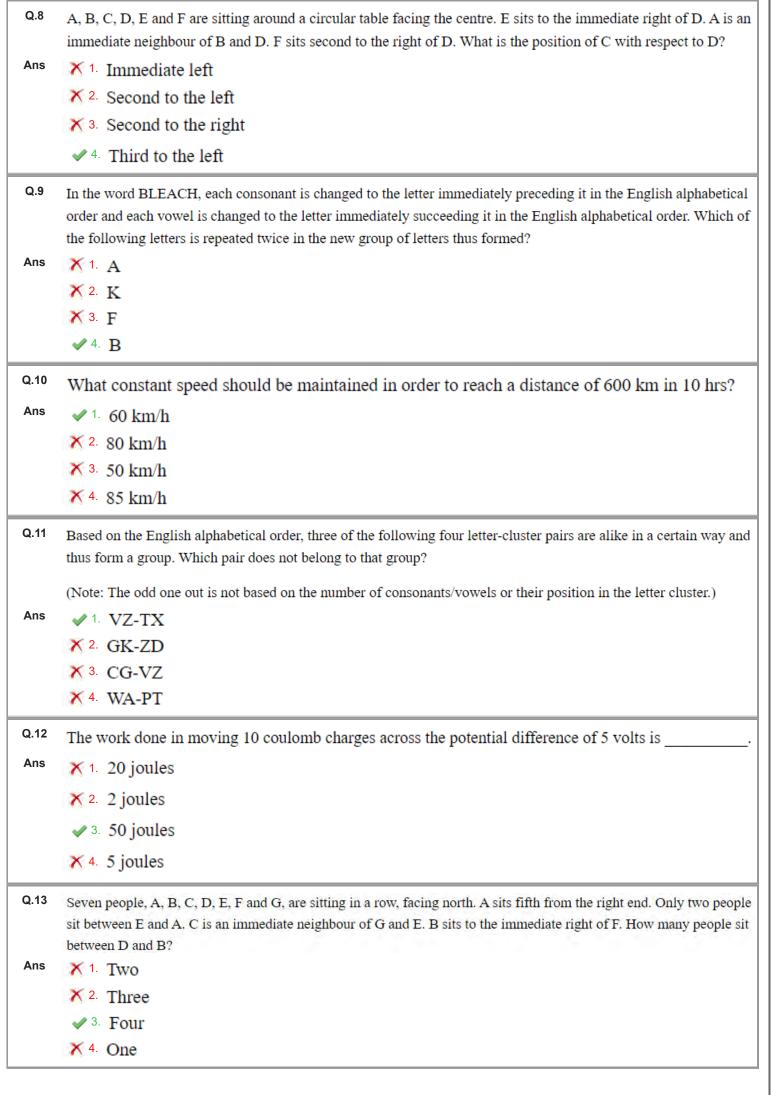
X 2. 280

X 3. 300

√ 4. 345

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Q.14	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	BDG, DFI, FHK, HJM, JLO, ?
Ans	✓ 1. LNQ
	× 2. OPR
	× 3. POR
	X 4. NLQ
Q.15	Town L lies to the west of Town M. Town D lies to the northeast of Town L. Town A lies to the west of Town D. Town
Ans	R lies to the east of Town D. What is the position of Town R with respect to Town L? 1. Northwest
	✓ 2. Northeast
	× 3. Southwest
	× 4. Southeast
Q.16	Which of the following statements is/are correct?
	Statements:
	I) A current carrying conductor acts like a magnet.
	II) Moving electrons perpendicular to the magnetic field do not experience any force.
Ans	✓ 1. Statement I only
	× 2. Statement II only
	3. Neither Statement I nor II
	X 4. Both Statements I and II
Q.17	Three years ago, the average age of a family of six members was 19 years. Since then a boy has been born and the average age of the family is the same today as it was three years ago. What is the age of the boy?
Ans	1. 2.5 years
	× 2. 1.5 years
	× 3. 2 years
	✓ 4. 1 year
Q.18	Select the correct pair from the following options.
Ans	1. Object's resistance to change its state of motion—Gravitation
	✓ 2. Object's resistance to change its state of motion—Inertia
	✗ 3. Object's resistance to change its state of motion—Momentum
	★ 4. Object's resistance to change its state of motion—Acceleration

Q.19 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X:961::34:Y Ans X = 39, Y = 529 \checkmark 2. X = 41, Y = 576X = 45, Y = 625 \times 4. X = 47, Y = 729Q.20 Which of the following statements is INCORRECT about Rutherford's model of an atom? Ans 1 Electrons revolve around the nucleus in circular paths. 2 There is a positively charged centre in an atom, which is called the nucleus. ✓ 3. Electrons revolve around the nucleus in elliptical paths. Y 4. The size of the nucleus is very small as compared to that of the atom. Q.21 If a sum of money doubles itself in 10 years on compound interest, then in how many years will it become 16 times of itself at the same rate of interest? Ans X 1. 20 X 2. 10 3. 40 X 4. 30 Q.22 Which department's Disaster Management Division organised the conference on 'Experience Sharing and Capacity Building in Disaster Management' in August 2024? Ans 1. National Institute of Disaster Management (NIDM) 2. National Disaster Response Force (NDRF) 3. Department of Telecommunications (DoT) 4. Ministry of Communications Q.23 CYBS is related to GWFQ in a certain way based on the English alphabetical order. In the same way, KUJO is related to OSNM. To which of the following options is SQRK related, following the same logic? Ans ★ ¹ UOWH 2. VNWJ 4. UPVH Q.24 Which of the following statements is INCORRECT regarding metals?

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3. Lead and mercury are comparatively good conductors of heat.

Ans

Metals are good conductors of heat.

2. Metals have to be drawn into thin wires.

* 4 Metals, in their pure state, have a shining surface.

Q.25	In 2023, 'Garba' was declared as an intangible cultural heritage by UNESCO. Which of the following states is Garba from?
Ans	X 1. Assam
	X 2. Kerala
	X 3. West Bengal
	✓ 4. Gujarat
Q.26	In which of the following are CFCs NOT used?
Ans	√ 1. Fire extinguishers
	X 2. Grinders
	X 3. Aerosol sprays
	X 4. Refrigerators
Q.27	Two angles are complementary. The larger angle is 6° less than five times the measure of the smaller angle. What is
	the measure of the larger angle?
Ans	X 1. 63°
	× 2. 87°
	♂ 3. 74 °
	× 4. 66°
Q.28	IIT Bombay and have partnered to develop India's first Quantum Diamond Microchip Imager.
Ans	1. Mahindra and Mahindra
	✓ 2. TCS
	X 3. Google
	★ 4. L&T
0.00	
Q.29	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given
	statements.
	Statements:
	All oceans are rivers.
	Some rivers are ponds.
	Conclusions:
	(I) All ponds are oceans.
	(II) Some oceans are ponds.
Ans	1. Only conclusion (II) follows.
	2. Both conclusions (I) and (II) follow.
	× 4. Only conclusion (I) follows.
Q.30	In 2024, which company entered into a Memorandum of Understanding (MoU) with iCreate to promote AI startups in India?
Ans	X 1. Infosys
	X 2. Meta
	X 3. Google
	✓ 4. Microsoft
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Q.31 Which of the following will be formed when dilute hydrochloric acid is added to a beaker having copper oxide?

Ans X 1.

A solution with blue-green colour is formed due to the formation of copper (III) chloride.

- X 2 A solution with green colour is formed due to the formation of copper (II) chloride.
- X 3. A colourless solution is formed due to the formation of copper (II) chloride.
- **4**.

A solution with blue-green colour is formed due to the formation of copper (II) chloride.

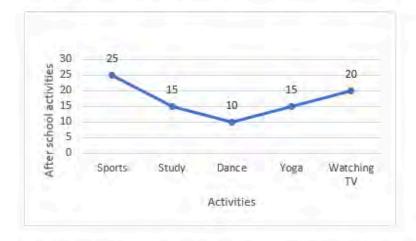
Q.32 The Sangameshwara Temple had been submerged in the backwaters of the Srisailam project due to heavy rainfall in the monsoon of 2024. This temple lies on the banks of which river?

Ans

- X 1. Narmada
- X 2. Yamuna
- 3. Krishna
- X 4. Ganga

Q.33 Study the given graph and answer the question that follows.

The graph shows the number of students involved in different after-school activities.



What is the average number of students participating in Sports and Yoga?

Ans

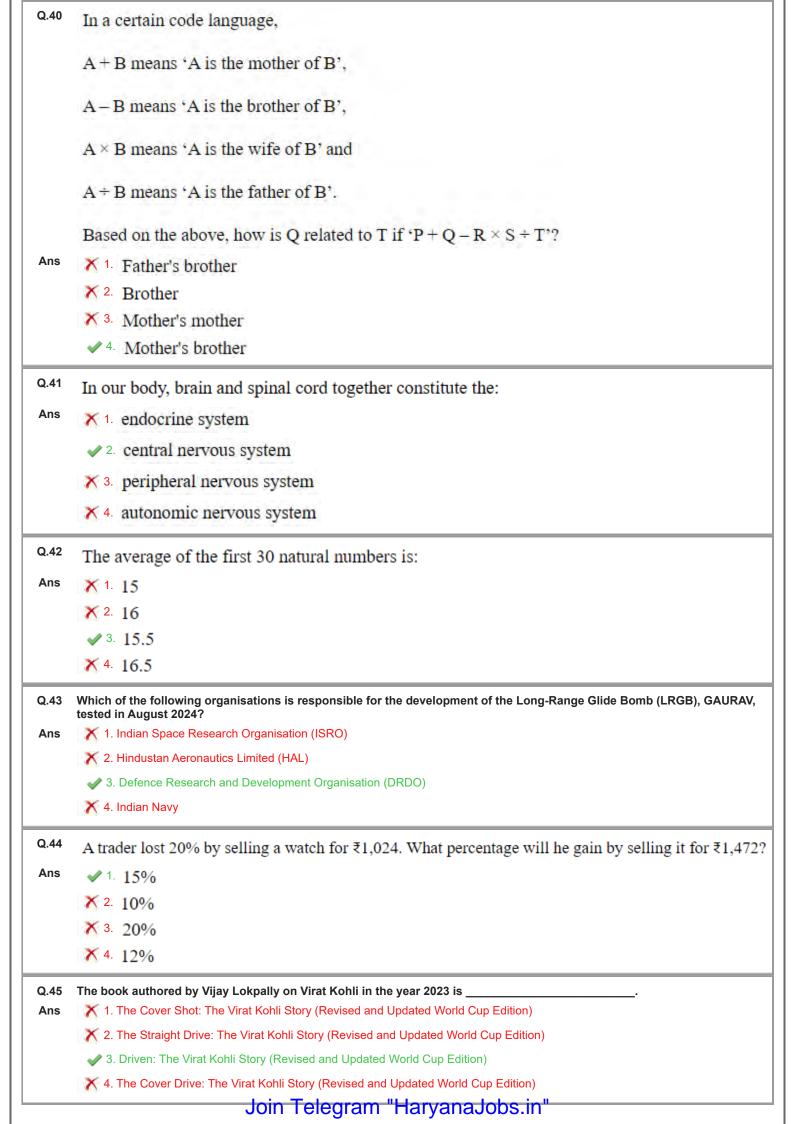
- X 1. 40
- √ 2. 20
- X 3. 30
- X 4. 50

Q.34 The particles size of a solution is:

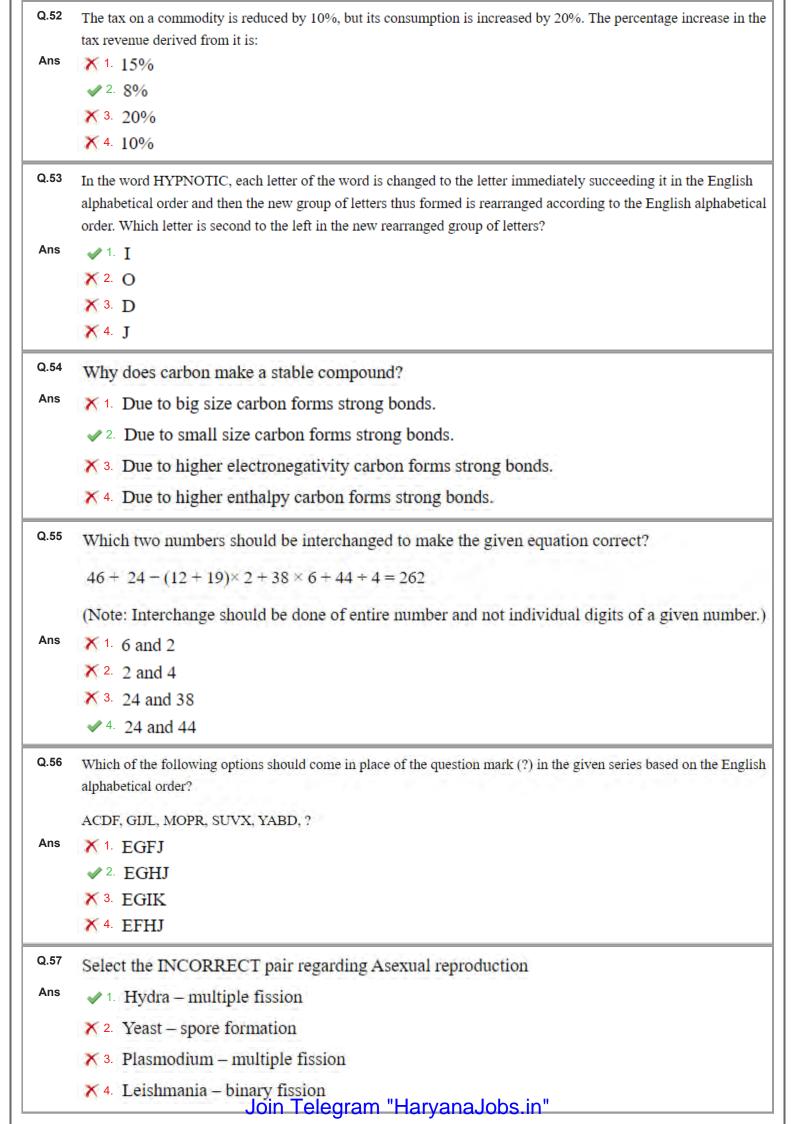
Ans

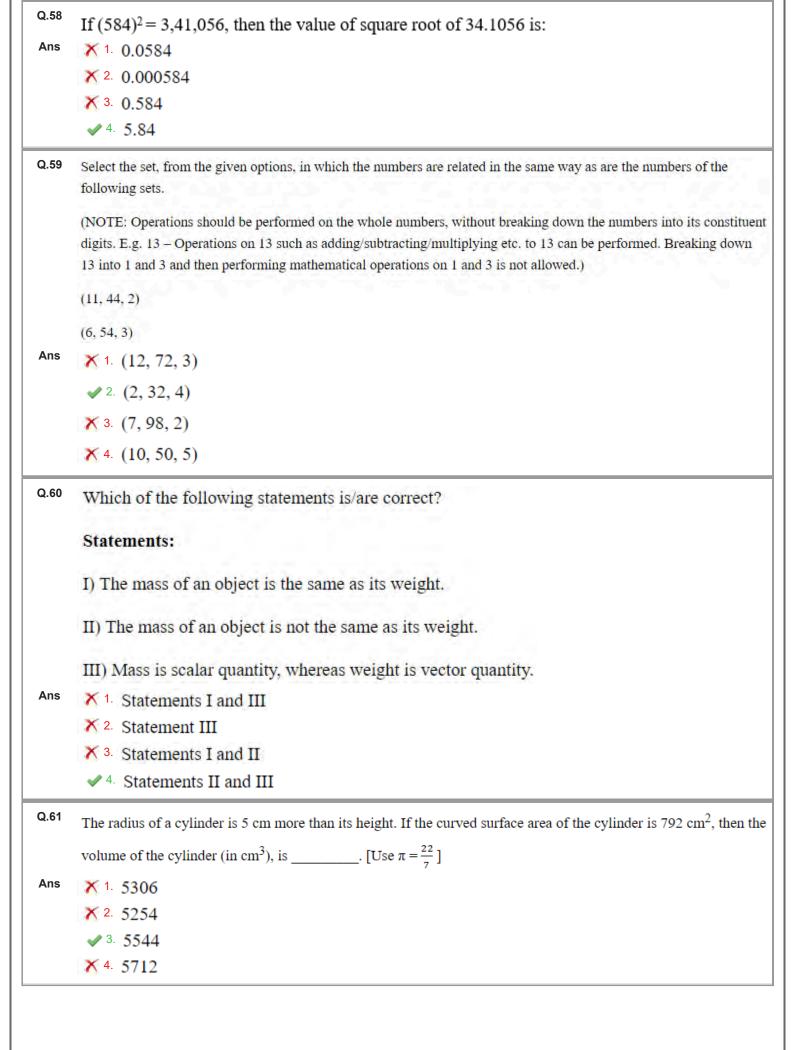
- ✓ 1 smaller than 1 nm in diameter
- X 2. smaller than 28 nm in diameter
- X 3. smaller than 100 nm in diameter
- × 4 smaller than 52 nm in diameter

Q.35 The relation between focal length 'f', object distance 'u' and image distance 'v' in the case of reflection of light by a spherical mirror is given by _____ Ans \times 1. 1/f = (uv)/(u+v) \checkmark 2. 1/f = (1/u) + (1/v) \times 3. 1/f = (1/u) - (1/v) \times 4. 1/f = (1/v) - (1/u)Q.36 Amita is 2 years older than her friend Amrita. Amita's father is twice as old as Amita, and Amrita is twice as old as her sister. The ages of Amita's father and Amrita's sister differ by 43 years. The sum of the ages (in years) of Amita and Amrita is: Ans √ 1. 54 X 2. 50 X 3. 64 X 4. 68 Q.37 Simplify the following expression: $(a + 2b - c)(b - c) + (a - c)2b + b^2$ ¹ 3b²+3ab-5bc-ac Ans 2. 2b²+3ab-4bc+c X 3. 3ab − 5bc − ac − 2abc \checkmark 4. $3b^2 + c^2 + 3ab - 5bc - ac$ Q.38 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 letter-cluster 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 1. GMJ ✓ 2. BHF 3. KQN 4. RXU Q.39 Select the number from among the given options that can replace the question mark (?) in the following series. 184 242 275 333 366 424 ? Ans X 1. 464 **2. 457** X 3. 426 X 4. 478



Q.46	The angle of elevation of the top of a small tree from a point on the ground 300 m away from the foot of the tree was 30°. When the tree grew taller, its angle of elevation became 60° from the same point. By how much did the tree grow?
Ans	$1. \frac{100}{\sqrt{3}} \text{ m}$
	✓ 2. 200√3 m
	\times 3. $\frac{200}{\sqrt{3}}$ m
	× 4. 100√3 m
Q.47	The angles of a quadrilateral are in the ratio $2:5:7:10$. Find the difference between the greatest and the smallest angles of the quadrilateral.
Ans	№ 1. 50°
	√ 2. 120°
	X 3. 180°
	× 4. 60°
Q.48	The 2024 philately scholarship scheme was launched by the Department of Posts under the
Ans	X 1. Sarva Shiksha AbhiyanX 2. Pradhan Mantri Kaushal Vikas Yojana
	✓ 3. Deen Dayal SPARSH Yojan
	X 4. Digital India Program
Q.49	Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. G is kept third from the bottom. Only two boxes are kept between C and E. A is kept immediately above D. D is kept at one of the positions above G. Only two boxes are kept between B and E. B is not kept at the top-most position.
Ans	How many boxes are kept between D and B? 1. Four
	× 2. Two
	✓ 3. Three
	× 4. One
Q.50	Who coined the term 'protoplasm' for the fluid substance of the cell?
Ans	Virchow
	× 2. Robert Brown
	✓ 3. Purkinje
	× 4. Robert Hooke
	Robert Hooke
Q.51	In a certain code language, 'lost in space' is coded as 'vp dc ez' and 'never get lost' is coded as 'gb ez cy'. What is the code for 'lost' in the given code language?
Ans	X 1. gb
	× 2. dc
	× 3. vp
	√ 4. ez





Q.62 Select the correct balanced equation option for the reaction $Fe + H_2O \rightarrow Fe_3O_4 + H_2$. Ans 1. $3\text{Fe} + 4\text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + 2\text{H}_2$ \times 2. 2Fe + 4H₂O \rightarrow Fe₃O₄ + 4H₂ \checkmark 3. 3Fe + 4H₂O \rightarrow Fe₃O₄ + 4H₂ \star 4. 4Fe + 4H₂O \rightarrow Fe₃O₄ + 4H₂ Q.63 In a certain code language, 'LOBE' is coded as '2653' and 'BORE' is coded as '6823'. What is the code for 'L' in the given code language? Ans X 1. 3 **2.** 5 X 3. 2 X 4. 8 Q.64 The highest common factor of a set of coprime numbers is equal to: Ans √ 1. 1 2. the lowest among them X 3. the highest among them X 4. 2 Q.65 From a 2.25-litre mango drink bottle, how many small glasses of 45 ml can be filled? Ans X 1. 45 √ 2. 50 **X** 3. 55 X 4. 40 Q.66 Ravi and Kumar are working on an assignment. Ravi takes 6 hours to type 32 pages on a computer, while Kumar takes 5 hours to type 40 pages. How much time will they take, working together on two different computers to type an assignment of 110 pages? Ans X 1. 8 hours √ 2. 8 hours 15 minutes X 3. 7 hours 30 minutes X 4. 8 hours 25 minutes Q.67 Which sexually transmitted diseases are caused by a viruses? X 1. Warts and Gonorrhoea Ans X 2. Gonorrhoea and Syphilis 3. Syphilis and AIDS X 4. Warts and AIDS

Q.68	DEF is related to CDE in a certain way. In the same way, MNO is related to LMN. To which of the following options is UVW related, following the same logic?
Ans	1. EFD
	× 2. FED
	✓ 3. TUV
	× 4. FDE
0.69	In October 2023, Prime Minister Narendra Modi formally announced India's interest in bidding for the Olympics at
Q.69	the 141 st IOC Session.
Ans	X 1. 2028
	X 2. 2040
	√ 3. 2036
	4. 2032
Q.70	When 10% of the inhabitants of a village died of cholera, a panic set in, during which 25% of the remaining inhabitants
	left the village. The population then reduced to 4050. Find the number of original inhabitants.
Ans	X 1. 7000
	× 2. 5000
	× 3. 8000
	✓ 4. 6000
Q.71	Magnification produced by a spherical mirror is equal to
Ans	Objectdistance
	1. $\frac{Object distance}{Image distance}$
	Heightoftheimage
	✓ 2. Heightoftheobject
	★ 3. Height of the image × height of the object
	★ 4. Object distance × image distance
Q.72	India's rank in the Corruption Perceptions Index (CPI) improved from in 2022 to in 2023.
Ans	√ 1. 85; 93
	2. 93; 85
	X 3. 40; 39
	4. 85; 40
Q.73	The sum of the length, the breadth and the height of a cuboid is 38 cm and the length of its diagonal is 22 cm. Find the total surface area of the cuboid.
Ans	1. 480 cm ²
	× 2. 432 cm ²
	✓ 3. 960 cm ²
	^{4.} 864 cm ²

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	26/11/2024
Test Time	4:30 PM - 5:30 PM
Subject	ALP Stage 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 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.

Statements:

All engines are rockets.

All planes are rockets.

Conclusions:

- (I) Some engines are planes.
- (II) All planes are engines.

Ans

- 1. Only conclusion (II) follows
- X 2. Both conclusions (I) and (II) follow
- X 3. Only conclusion (I) follows
- 4. Neither conclusion (I) nor (II) follows

Q.2 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?

FLB, IOE, LRH, OUK,?

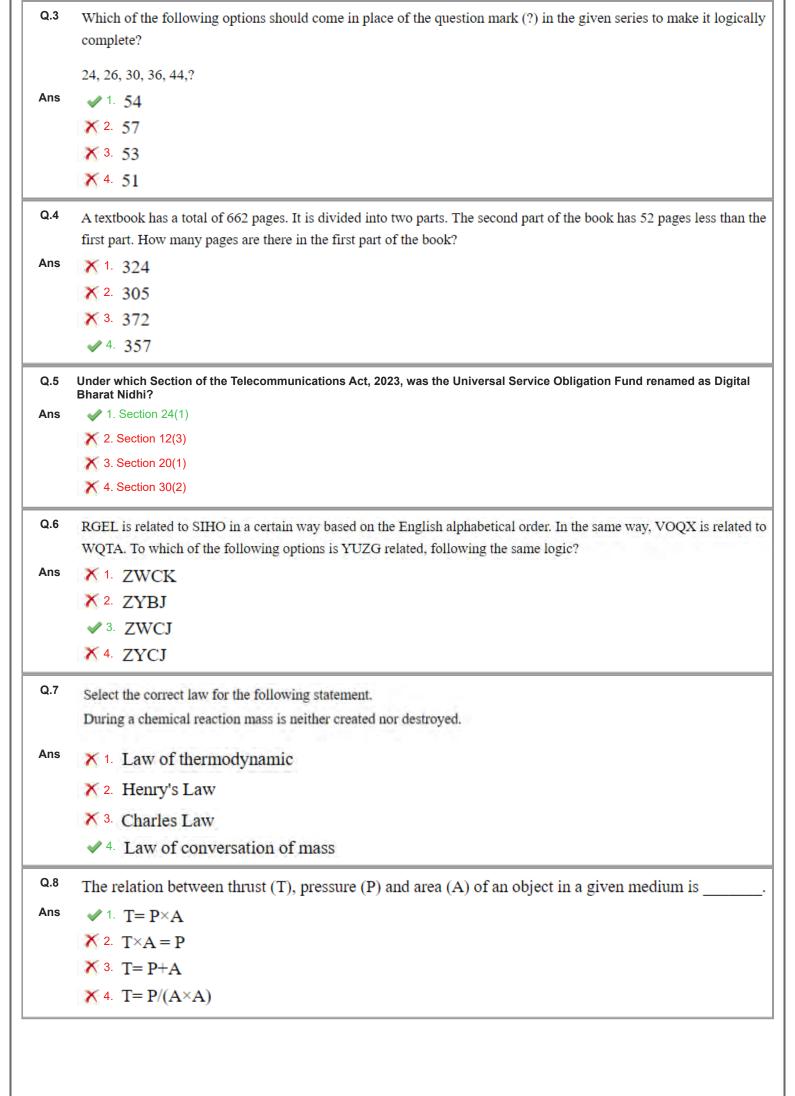
Ans

1. RYM

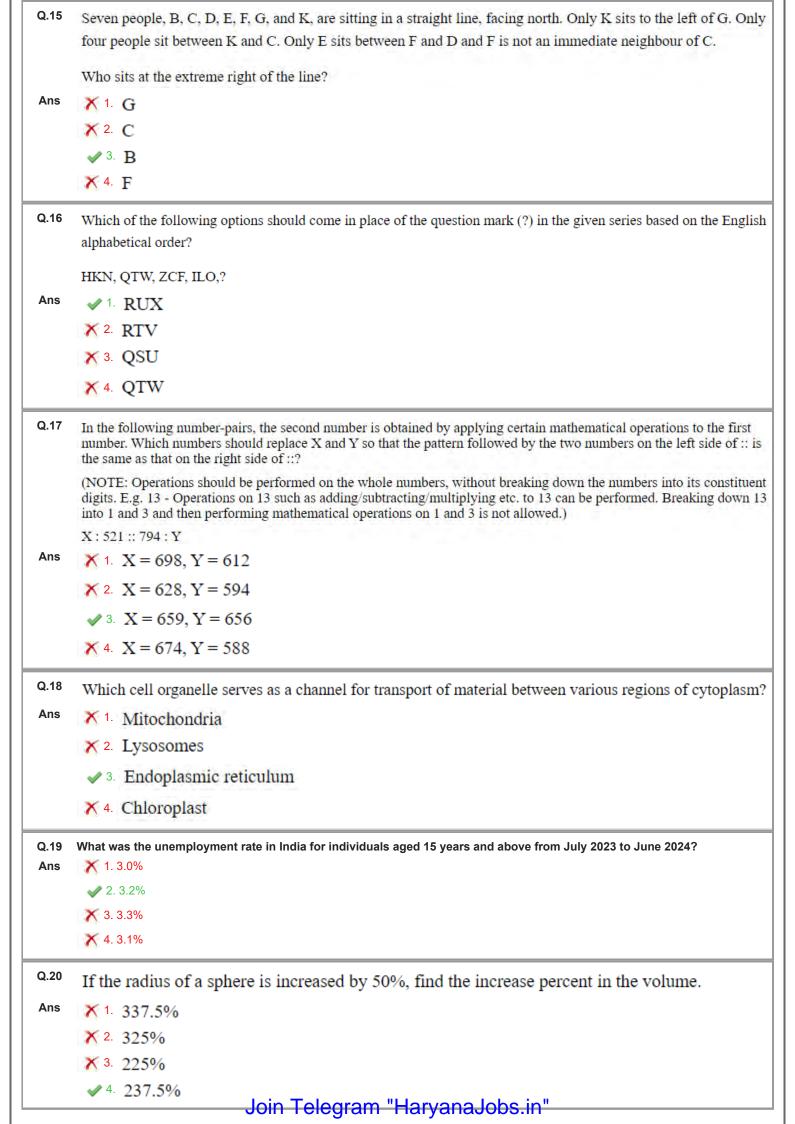
√ 2. RXN

X 3. RYN

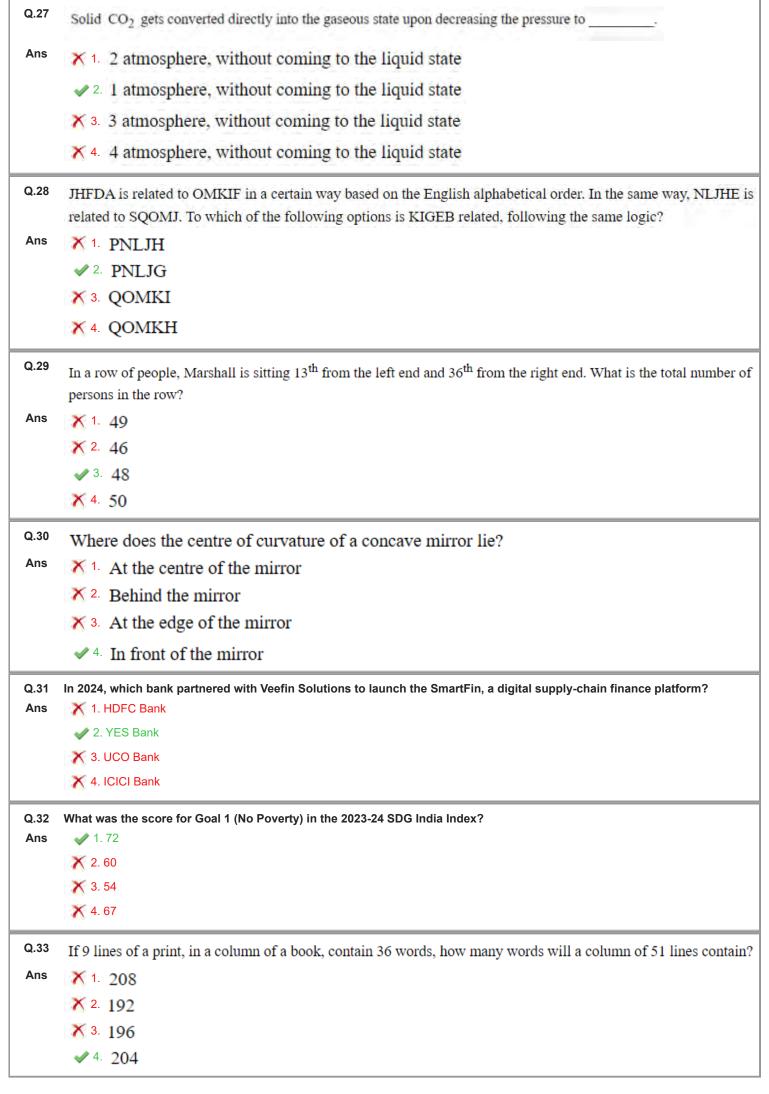
X 4. RXM



Q.9 A dishonest shopkeeper pretends to sell his goods at cost price. However, he uses a false weight on which 984 gm is written, but actually weighs lesser. Using this false weight, the shopkeeper makes a gain of 23%. The actual measure of the weight used is: Ans 🗶 1. 935 gm √ 2. 800 gm 💢 3. 850 gm \chi 4. 900 gm Q.10 The value of $(0.000001)^{1/3}$ is: Ans X 1. 0.1 × 2. 0.001 **3**. **0.01 *** 4. 0.000001 Q.11 Which of the following is obtained upon heating ferrous sulphate? Ans 1 Only ferric oxide ✓ 2. Ferric oxide, sulphur dioxide and sulphur trioxide 3. ferric oxide and sulphur trioxide 4 ferric oxide and sulphur dioxide Q.12 Which of the following statements is INCORRECT about sodium carbonate? Ans ★ 1 Sodium carbonate is used in glass, soap and paper industries. X 2. Sodium carbonate is used in the manufacture of sodium compounds, such as borax. ✓ 3. Sodium carbonate is used to neutralise excess acid in the stomach. X 4. Sodium carbonate can be used as a cleaning agent for domestic purposes. Q.13 Simplify: 3889 + 12.952 - 47.95Ans X 1. 3853.892 × 2. 3853.982 **✓** 3. 3854.002 X 4. 3854.012 Q.14 In Fleming's left hand rule, which physical quantity is represented by the middle finger? Ans X 1. Direction of the magnetic field ✓ 2. Direction of electric current. Direction of force X 4. Direction of the motion of conductor



Q.21	Which of the following Indian states hosted the 2023 Hornbill Music Festival?
Ans	1. Kerala
	✓ 2. Nagaland✗ 3. Odisha
	X 4. Gujarat
Q.22	A, B, C, D, E and F are sitting around a circular table facing the centre. A sits second to the left of B. E sits to an
	immediate left of A. C sits to the immediate right of F. What is the position of C with respect to D?
Ans	★ 1. Immediate right
	× 2. Second to the left
	X 3. Second to the right
	✓ 4. Third to the left
Q.23	The radius of the base and the height of a closed cylinder are in the ratio 1 : 3. Using $\pi = \frac{22}{7}$, find its total surface area
	if its curved surface area is 924 m ² .
Ans	1. 1512 m ²
	× 2. 1848 m ²
	× 3. 908 m ²
	✓ 4. 1232 m ²
Q.24	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 letter-cluster 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	✓ 1. OKL
	× 2. UPR
	X 3. DYA
	X 4. LGI
Q.25	If a person can see far objects distinctly but cannot see nearby objects clearly, then this eye defect can be corrected by using
Ans	× 1. a concave lens of suitable power
	× 2. a plane glass plate
	× 4. a plane mirror
Q.26	Which of the following metals are mixed with iron to get stainless steel?
Ans	1. nickel and tin
	× 2. nickel and zinc
	× 3. nickel and copper
	✓ 4. nickel and chromium



Town A lies to the southwest of Town R. Town D lies to the east of Town A. Town T lies to the southeast of Town D. Town R lies to the north of Town T. Town M lies to the southeast of Town T. What is the position of Town M with respect to Town D?
1. Northeast
✓ 2. Southeast
× 3. Northwest
X 4. Southwest
Two numbers are in the ratio 3: 2. Their LCM and HCF are 24 and 4, respectively. The greater of the two numbers is:
X 1. 10
× 2. 8
✓ 3. 12
× 4. 14
Blood brings carbon dioxide from the rest of the body for release into the:
× 1. intestines
× 2. oesophagus
× 3. stomach
✓ 4. alveoli
Which physical quantity represents the rate at which electric energy is dissipated or consumed in an electric circuit?
★ 1. Electrical energy
✓ 2. Electric power
× 3. Potential difference
★ 4. Heat energy
In June 2024, which of the following Indian cities was officially recognised as World Craft City by the World Crafts Council? 1. Kolkata
✓ 2. Srinagar
X 3. New Delhi
X 4. Bhopal
Which of the following organisms reproduces by budding?
★ 1. Earthworm
✓ 2. Hydra
× 3. Frog
× 4. Cockroach

Q.40	If each letter of the word WELDING is changed to the letter immediately succeeding it in the English alphabetical
	order and the new group of letters thus formed is rearranged in English alphabetical order, then which letter is the
	third from the left in the new rearranged group of letters?
Ans	X 1. J
	× 2. E
	★ 4. F
Q.41	A moving body covers 10 m distance along a straight path in each second. The body is under which type of motion?
Ans	★ 1. Non-uniformly accelerated motion
	× 2. Uniformly accelerated motion
	× 3. Circular motion
	✓ 4. Uniform motion
Q.42	Study the given table and answer the question that follows.
	The table depicts new admissions in the Primary and Middle wings of a school in the years 2021 and 2022.
	The table depicts new admissions in the Primary and Middle wings of a school in the years 2021 and 2022.
	Years New admission in New admission in
	Primary Wing Middle Wing 2021 25 20
	2022 12 15
	How many new admissions were there in the Primary wing of the school in the years 2021 and 2022 together?
Ans	× 1. 35
	X 2. 31
	√ 3. 37
	X 4. 33
0.42	
Q.43	A solution contains 40 ml of acid in 120 ml of water. Calculate the concentration in terms of volume by volume percentage of the solution.
Ans	× 1. 45%
	✓ 2. 25%
	× 3. 12%
	× 4. 30%
Q.44	If $a:b=3:4$ and $b:c=4:1$, then $a:b:c=?$
Ans	× 1. 4:1:3
	× 2. 4:3:1
	✓ 3. 3 : 4 : 1
	× 4. 3:1:4
Q.45	The joint exercise involving the Indian Army's Kharga Corps and the Indian Air Force in 2024 was conducted in which state?
Ans	√ 1. Punjab
	X 2. Rajasthan
	X 3. Haryana X 4. Gujarat
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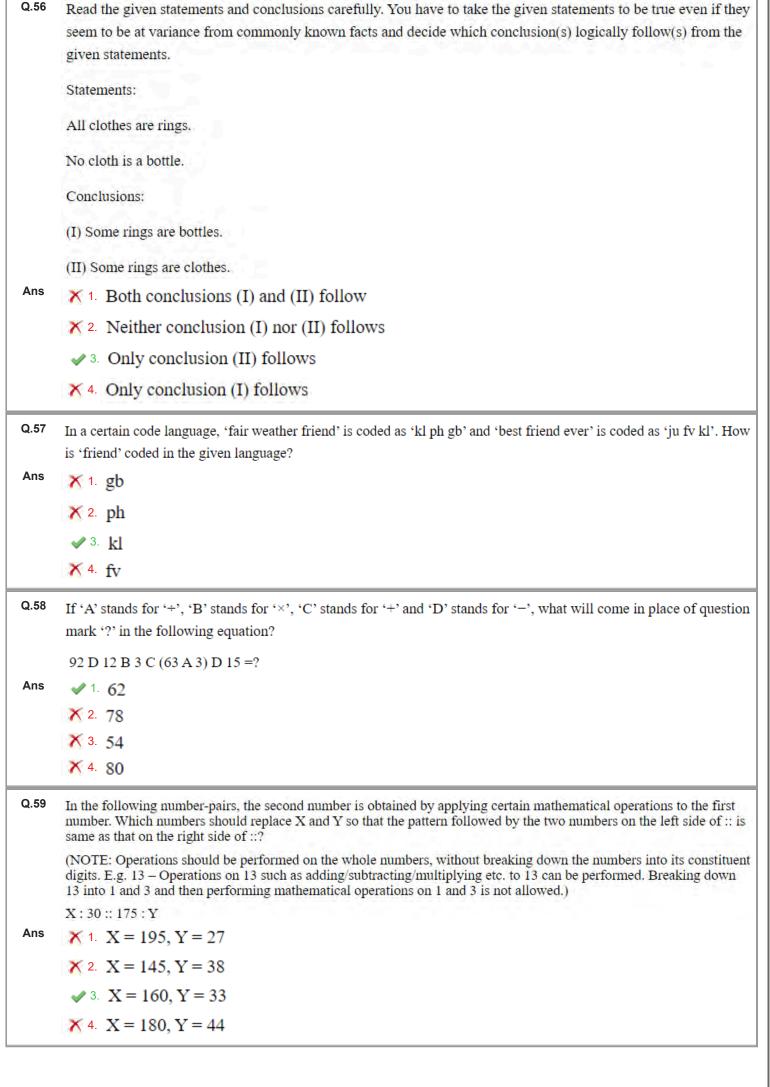
Q.46 Which award has been conferred to Narayan Chakraborty for his contribution in Science and Engineering in 2024? Ans 💢 1. Bharat Ratna 2. Padma Shri X 3. Padma Vibhusan X 4. Padma Bhusan Q.47 If each consonant in the word DANCER is changed to the letter immediately preceding it in the English alphabetical order and each vowel is changed to the letter immediately succeeding it in the English alphabetical order, then which of the following letters is repeated twice in the new group of letters thus formed? Ans X 1. O √ 2. B X 3. C X 4. M Q.48 In the word KNIGHT, each consonant is changed to the letter immediately succeeding it in the English alphabetical order and each vowel is changed to the letter immediately preceding it in the English alphabetical order. How many vowels are present in the new group of letters thus formed? Ans X 1. Four X 2. Two X 3. None ✓ 4. Three Q.49 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '+' are interchanged? $76 \div 4 + 108 \times 3 - 5 = ?$ Ans √ 1. 273 X 2. 265 **X** 3. 275 X 4. 271 Q.50 For a data, if the mean is 28.5 and the median is 32, then the mode using empirical formula is: Ans X 1. 41 X 2. 40 X 3. 42 **4.** 39 Q.51 The income of X is 60% more than Y's income and the income of Y is 40% more than Z's income. By what percentage is X's income more than Z's income? Ans 1 234% × 2. 134% X 3. 224% 4. 124%

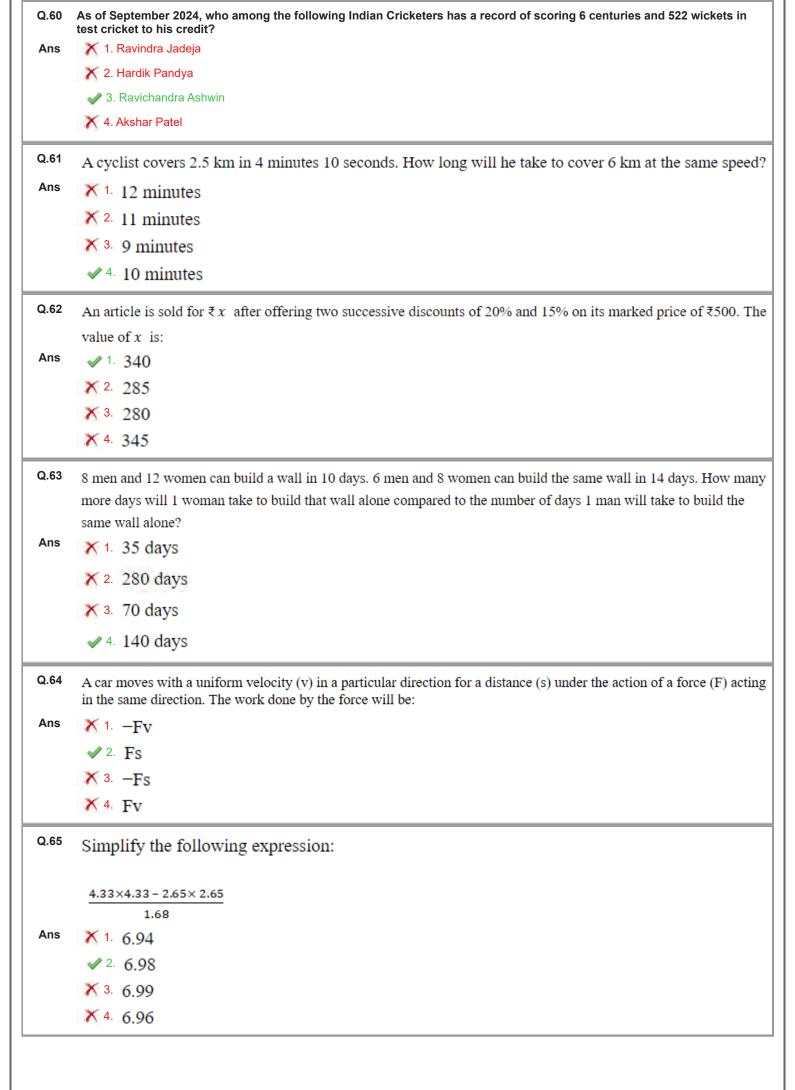
statement to be true and on the basis of the information given in the statement, decide which of the courses of action logically follow(s) for pursuing. Statement: The price of wheat has been steadily rising across the country since the last 3 weeks, due to shortages reported from major wholesale markets. Courses of Action: (I) The Government should set up an urgent investigation to check the reasons for the shortages. (II) The Government should provide oil at subsidised rates to citizens till wheat supplies are restored. Ans ★ 1 Neither I nor II follows 2. Only I follows 3. Only II follows A. Both I and II follow Q.53 In a certain code language, A + B means 'A is the mother of B', A-B means 'A is the brother of B', A × B means 'A is the wife of B' and A + B means 'A is the father of B'. Based on the above, how is Q related to T if $P - Q \times R \div S + T$? Ans X 1. Mother's brother Mother 3. Mother's mother 4. Daughter Q.54 As of September 2024, who among the following cricketers (men) is India's second highest wicket taker in the Test Matches? X 1. Harbhajan Singh Ans 2. R Ashwin X 3. Anil kumble X 4. Kapil Dev Q.55 Reflex arcs are formed in which part of the nervous system? Ans Medulla X 2. Fore brain 3. Spinal cord X 4. Cerebellum

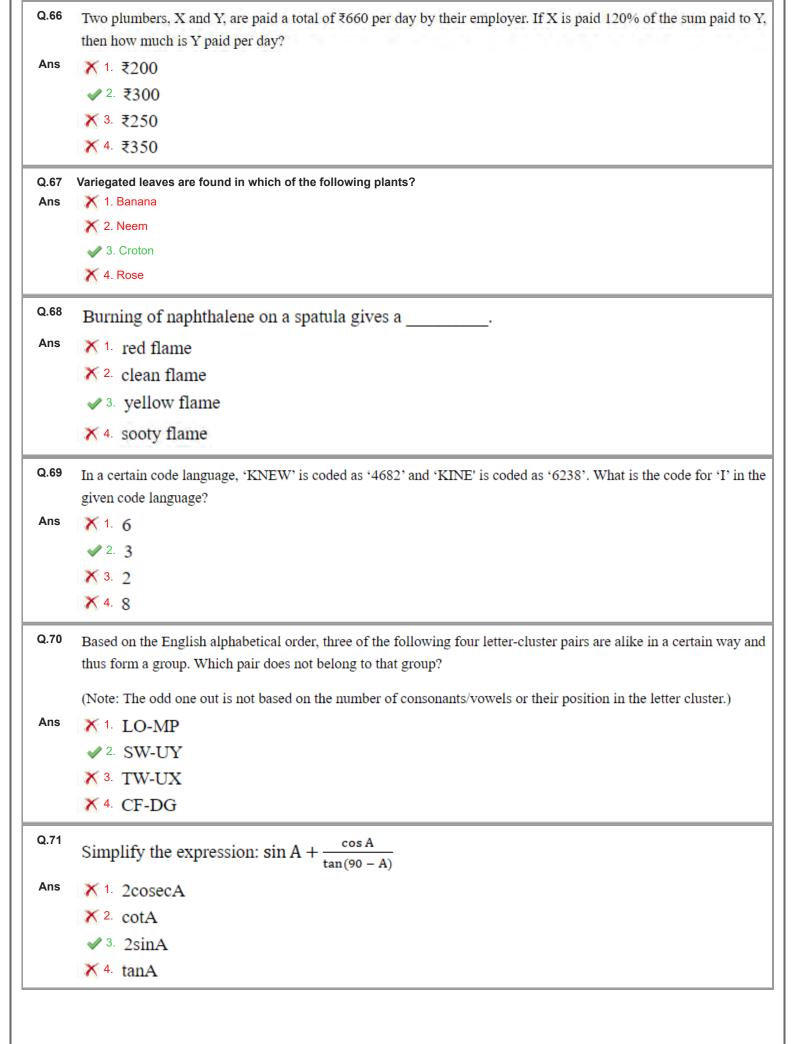
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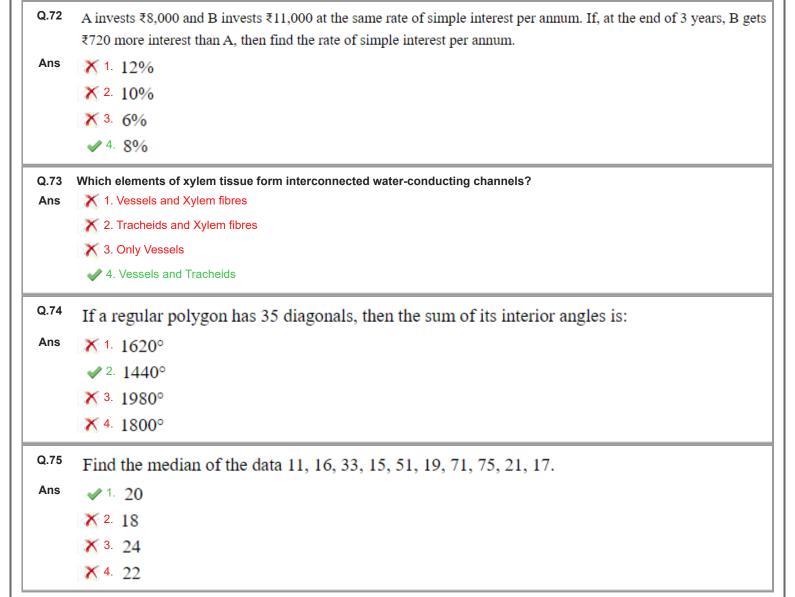
In this question, a statement is followed by two courses of action, numbered I and II. You must assume everything in the

Q.52









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Test Date	27/11/2024
Test Time	9:00 AM - 10:00 AM
Subject	ALP Stage 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 If 60% of a number is added to 120, then the result is the number itself. 60% of this number is

Ans

X 1. 200

X 2. 320

√ 3. 180

X 4. 300

Q.2 If x : y = 8 : 3, then (x + y) : (x - y) = ?

Ans

X 1. 5:11

√ 2. 11:5

X 3. 2:5

X 4. 5 : 2

Triangle ABC is similar to triangle DEF with $\frac{\overline{BC}}{\overline{EF}} = \frac{1}{4}$. Find $\frac{\text{Area (triangle DEF)}}{\text{Area (triangle ABC)}}$

Ans

🗶 1. 🔒

√ 2. 16

X 3. 1/16

X 4. 4

Q.4 48 men can do a work in 5 days while 40 women can do the same work in 9 days. In how many days can 4 men and 6 women together do the same work?

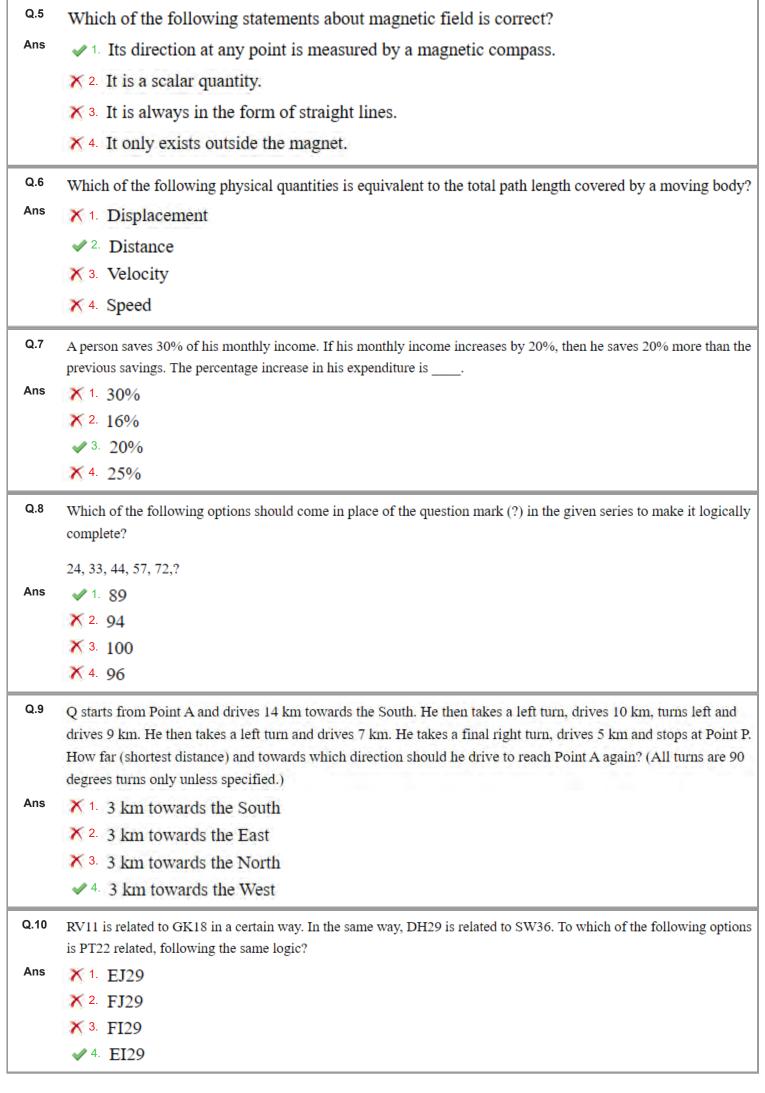
Ans

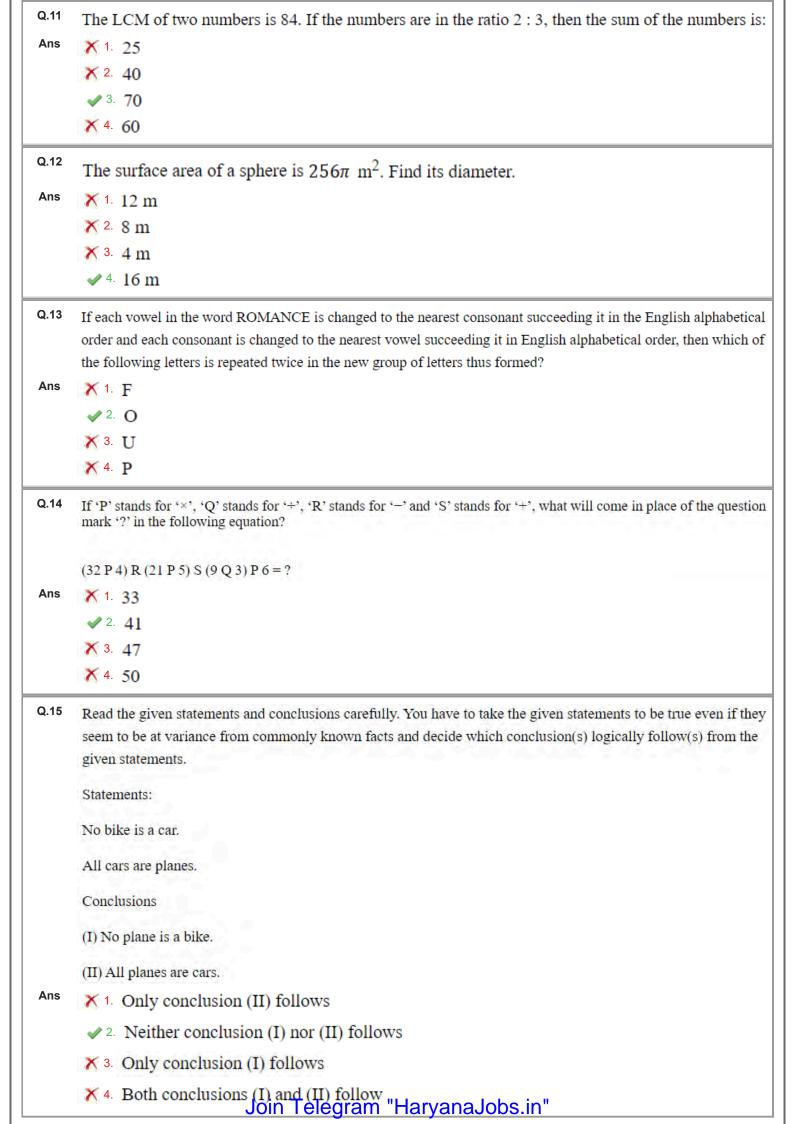
X 1. 24 days

X 3. 48 days

X 4. 42 days

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Q.16	Who among the following was appointed as the Brand Ambassador of the Ministry of Ports, Shipping and Waterways of the Government of India?
Ans	1. P R Shreejesh
	X 2. Sarabjot Singh
	3. Neeraj Chopra
	✓ 4. Manu Bhaker ———————————————————————————————————
Q.17	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they
	seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the
	given statements.
	Statements:
	Some bulbs are sands.
	All bulbs are candles.
	Conclusion:
	(I) Some candles are bulbs.
	(II) No candle is a sand.
Ans	1. Neither conclusion (I) nor (II) follows.
	× 2. Only conclusion (II) follows.
	✓ 3. Only conclusion (I) follows.
	★ 4. Both conclusions (I) and (II) follow.
Q.18 Ans	What recent decision did the Union Cabinet make regarding the Ayushman Bharat PM-JAY scheme on 11 September 2024? 1. To extend benefits to all citizens aged 70 and above
	X 2. To increase the coverage amount for all citizens
	X 3. To discontinue the scheme
	X 4. To limit coverage to only low-income families
Q.19	In this question, a statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the courses of action logically follow(s) for pursuing.
	Statement:
	Severe congestion is seen on the service road outside the apartment complex between 7.30 a.m. to 9 a.m. everyday due to many school buses from different schools picking up children from gate of the apartment complex. This is leading to a traffic jam, delaying many people travelling for work at this time.
	Courses of Action:
	(I) No school buses should be permitted on the service road from 7.30 a.m. to 9 a.m.
	(II) School buses should be permitted to enter the society gates.
Ans	× 1. Only I follows
	× 2. Only II follows
	★ 3. Both I and II follow
	✓ 4. Neither I nor II follows

Q.20 If a man lifts 1 kg of load to the height of 2.5 m from the ground, then assuming acceleration due to gravity is 10 m/sec², magnitude of the work done by the man is . Ans ★ 1. 0.25 joule √ 2. 25 joules 3. 2.5 joules 4. 4 joules Q.21 The equivalent resistance of the series combination of R ohm and 5 ohm is 7 ohm. Here, R is Ans X 1. 5 ohm X 2. 1 ohm X 3. 7 ohm √ 4. 2 ohm Q.22 Membrane bound organelles are NOT present in: Ans 1 Neither eukaryotic nor prokaryotic cells X 2. Only eukaryotic cells X 3. Both eukaryotic and prokaryotic cells 4. Only prokaryotic cells Q.23 The value of $(36)^{1/6}$ is: Ans X 1. √36 X 2. 1 X 3. 2 √ 4. (6)^{1/3} Q.24 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of :: ? (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.) X:192:: 34:Y Ans \times 1. X = 45, Y = 136 \times 2. X = 48, Y = 128 X = 52, Y = 102 \checkmark 4. X = 59, Y = 117

Q.25	Which of the following animals shows the power of regeneration?
Ans	× 1. Earthworm
	× 2. Tick
	✓ 3. Planaria
	× 4. Leech
	· Leccii
Q.26	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 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	X 1. AK-VF
	✓ 2. XF-SC
	X 3. SC-NX
	× 4. RB-MW
0.07	On which date did the Demants and Specta Issuer by the ability to be a believe in a bound in 20040
Q.27 Ans	On which date did the Department of Posts launch the philately scholarship scheme in 2024? 1. 15 August 2024
	✓ 2. 24 August 2024
	X 3. 5 September 2024
	× 4. 20 July 2024
Q.28	Amita is 2 years elder than her friend Amrita. Amita's father is twice as old as
	Amita, and Amrita is twice as old as her sister. The ages of Amita's father and
	Amrita's sister differ by 43 years. The difference between the ages of Amita and Amrita is:
Ans	✓ 1. 2
	× 2. 4
	X 3. 1
	× 4. 3
	<u>^</u> 3
Q.29	If the mean of a data is 65 and its mode is 23, then the median using empirical formula is:
Ans	× 1. 53
	✓ 2. 51
	× 3. 52
	× 4. 54
0.20	The final metab far Iran by 2024 25 which was wen by Mumbai was conducted at
Q.30 Ans	The final match for Irani Trophy 2024-25, which was won by Mumbai, was conducted at 1. Patna
	X 2. Hyderabad
	✓ 3. Lucknow
	X 4. Ahmedabad
0.24	Which of the following receptors help in the detection of taste?
Q.31 Ans	1. Olfactory receptors 1. Olfactory receptors
	✓ 2. Gustatory receptors
	X 3. Photoreceptors
	X 4. Phonoreceptors
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Q.32 Which of the following statements is/are correct?

Statements:

- I) Gravitational force between two objects is independent of the distance of separation between two objects.
- II) Gravitational force between two objects is inversely proportional to the square of the distance of separation between two objects.
- III) Gravitational force between two objects is directly proportional to the product of their masses.

Ans

- X 1 Statements I and II
- X 2. Statements I, II and III
- X 4. Statements I and III
- Q.33 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?

FEB, KJG, POL, UTQ, ?

Ans

- X 1. ZXS
- X 2. ZVU
- X 4. YZU

Q.34

 $\frac{\cos 45^{\circ}}{\tan 30^{\circ} + \cot 60^{\circ}}$ is equal to:

Ans

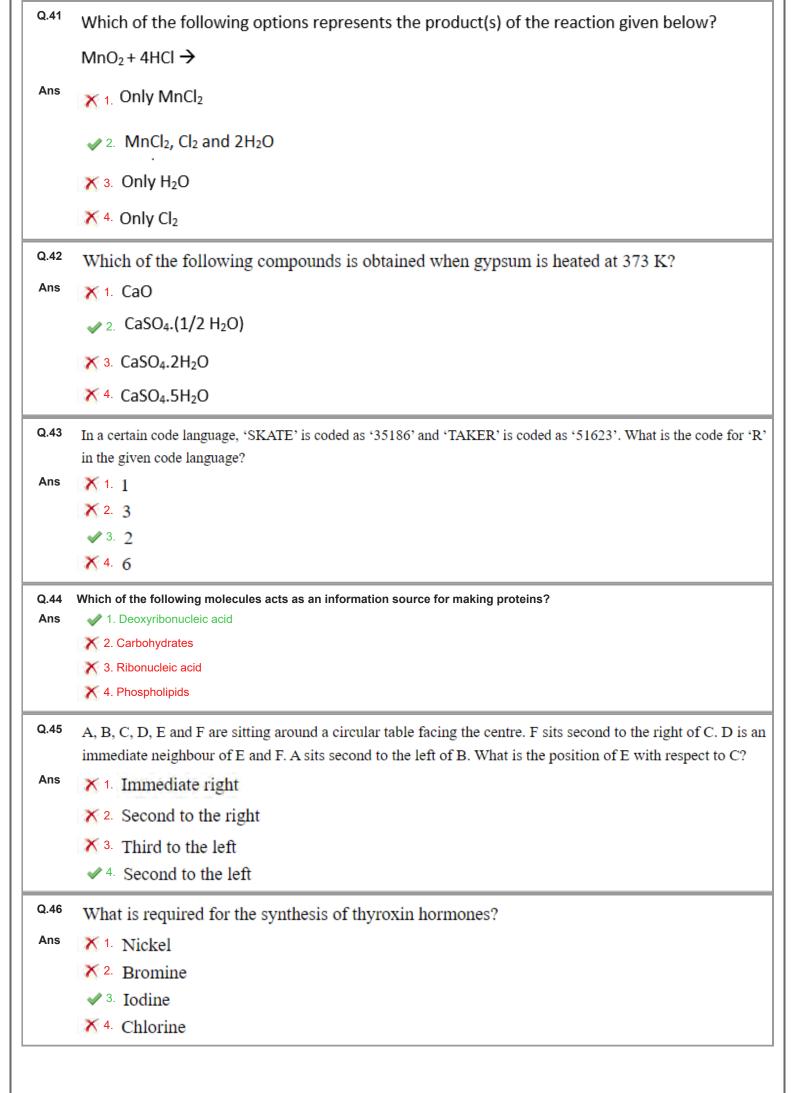
- χ 1. $\frac{\sqrt{3}}{\sqrt{2}(1-\sqrt{3})}$
- χ 2. $\frac{\sqrt{3}}{\sqrt{2}}$
- \times 3. $\frac{\sqrt{3}}{\sqrt{2}(1+\sqrt{3})}$
- $\checkmark 4. \frac{\sqrt{3}}{2\sqrt{2}}$
- Q.35 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which 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

- 1. IG-EJ
- 2. RP-NS
- 3. OM-KP

Q.36	If each vowel in the word WEIGHT is changed to the letter immediately succeeding it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters is repeated twice in the new group of letters thus formed?
Ans	X 1. J
	✓ 2. F
	X 3. V
	※ 4. G
Q.37	Which two numbers should be interchanged to make the given equation correct?
	$63 - 45 + 14 + (81 \div 9) \times 4 + 18 \times 3 = 114$
	(Note: Interchange should be done of the entire number and not individual digits of a given number.)
Ans	X 1. 4 and 3
	✓ 2. 14 and 18
	× 3. 45 and 81
	× 4. 63 and 81
Q.38	There are two classrooms, A and B. If 7 students are shifted from A to B, then B will have twice the number of students as A. If 3 students are sent from B to A, then both the classrooms will have the same number of students. The positive difference between the number of students in the two classrooms is:
Ans	√ 1. 6
	× 2. 5
	× 3. 8
	× 4. 7
Q.39	The Artisan Mahakumbh 2024, organised by the Government of India in Mumbai, was held to promote artisans under which of the following schemes?
Ans	X 1. Pradhan Mantri Kaushal Vikas Yojana
	2. USTAAD (Upgrading the Skills and Training in Traditional Arts/Crafts for Development)
	3. Prime Minister's Employment Generation Programme
	X 4. Scheme of Fund for Regeneration of Traditional Industries (SFURTI)
Q.40	Two people drive towards each other from two places which are 56 km apart. The speed of the first person is 12 km/h and the speed of the other is 14 km/h. After how long will they be 4 km apart if they start driving at the same time?
Ans	1 1 hour 30 minutes
	× 2. 1 hour
	3. 2 hours 10 minutes
	✓ 4. 2 hours



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Q.47 Which of the following is the molecular mass of HNO₃? Ans √ 1. 63 u × 2. 64 u X 3. 67 u X 4. 60 u Q.48 All 36 students in a class are standing in a row facing north. Preeti is 12th from the right end while Alisha is 22nd from the left end. How many people stand between Preeti and Alisha? Ans X 1. 3 X 2. 1 X 3. 5 √ 4. 2 If each consonant in the word PASTRY is changed to the letter immediately preceding it in the English alphabetical order and each vowel is changed to the letter immediately succeeding it in the English alphabetical order, then how many vowels are present in the new group of letters thus formed? Ans X 1. Two ✓ 2. One X 3. Three X 4. None Q.50 If the refractive index of air, water and crown glass are n₁, n₂ and n₃, respectively, then Ans \times 1. $n_1 < n_2 = n_3$ \times 2. $n_1 > n_2 > n_3$ \times 3. $n_1 = n_2 < n_3$ \checkmark 4. $n_1 \le n_2 \le n_3$ Q.51 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of :: ? X:66::9:Y Ans \times 1. X = 9, Y = 81 \checkmark 2. X = 8, Y = 83X = 8, Y = 81X = 7, Y = 80Q.52 Which of the following is the highest award in the Rashtriya Vigyan Puraskar awards? 🟋 1. Vigyan Vajra Ans X 2. Vigyan Mahan X 3. Vigyan Shri 4. Vigyan Ratna

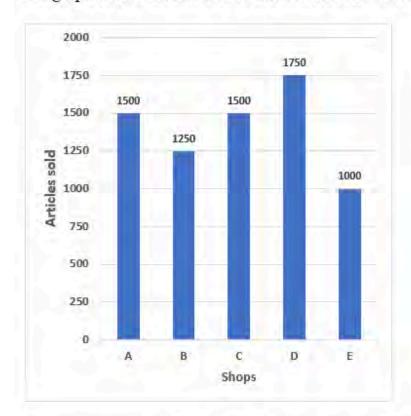
Q.53	A retailer would have made a profit of 18% if he had sold an article at its marked price. If the marked price of the article is ₹826, then the cost price of the article is:
Ans	× 1. ₹800
	× 2. ₹750
	✓ 3. ₹700
	× 4. ₹650
Q.54	Simplify the following expression:
	4.32×4.32 - 2.64× 2.64
	1.68
Ans	× 1. 6.94
	× 2. 6.56
	× 3. 6.99
	✓ 4. 6.96
Q.55	In a certain code language, 'DOTH' is coded as '3764' and 'HOLD' is coded as '7943'. What is the code for 'T' in
	the given code language?
Ans	√ 1. 6
	× 2. 7
	× 3. 4
	X 4. 3
Q.56	Why do covalently bonded compounds have low boiling point?
Ans	Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecules but weak intermolecular force 1. Have strong covalent bond within molecular force 1. Have strong covalent bond within molecular force 1. Have strong covalent bond within molecular force 1. Have strong covalent bond within mo
	X 2 Have weak covalent bond within molecules but weak intermolecular force
	× 3. Have strong covalent bond within molecules and also strong intermolecular force
	* Have strong intermolecular force within molecules but weak covalent bond
Q.57	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	BDF, IKM, PRT, WYA,?
Ans	₹ 1. CFI
	× 2. DGJ
	3. CEG

Q.58 Seven people, B, C, D, E, F, G and K are sitting in a straight line, facing north. Only five people sit between B and K. G sits to the immediate left of K. Only one person sits between G and E. D sits at some place to the left of F but at some place to the right of C. Who sits third from the left end of the line? Ans X 1. F X 2. C X 3. F. √ 4. D Q.59 The correct expression of 6.4646464646...... in the fractional form is: Ans × 1. $\frac{646}{99}$ **√** 2. $\frac{640}{99}$ \times 3. $\frac{6464}{1000}$ \times 4. $\frac{640}{100}$ Q.60 In 2024, which country is cooperating with India to counter China's military assertiveness and has discussed technology transfer for UNICORN at the 2+2 ministerial dialogue? Ans 1. Japan X 2. France 3. The United States of America X 4. Australia Q.61 Which of the following metals is more reactive towards dilute hydrochloric acid? Ans √ 1. Mg X 2. Al X 3. Zn X 4. Fe Q.62 Which of the following statements is INCORRECT? Ans 1. Compressed natural gas (CNG) is used as a fuel in vehicles these days. 2. The oxygen supplied to hospitals in cylinders is not a compressed gas. 3 The oxygen supplied to hospitals in cylinders is a compressed gas. 4. In the gaseous state, the particles move about randomly at a high speed. Which of the following singers was awarded the Padma Shri in 2024 for his significant contributions to Himachali folk and Q.63 classical music? Ans 🟋 1. Hansraj Raghuwanshi 2. Som Datt Battu 3. Kuldeep Sharma X 4. Mohit Chauhan

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Q.64 Study the following graph and answer the given question.

The graph shows the number of articles sold in a week by different shops.



What percentage of articles did shop C sell more than shop B?

Ans

- √ 1. 20%
- × 2. 50%
- **X** 3. 40%
- × 4. 30%

Q.65

In a certain code language,

A+B means 'A is the mother of B',

A-B means 'A is the brother of B',

 $A \times B$ means 'A is the wife of B',

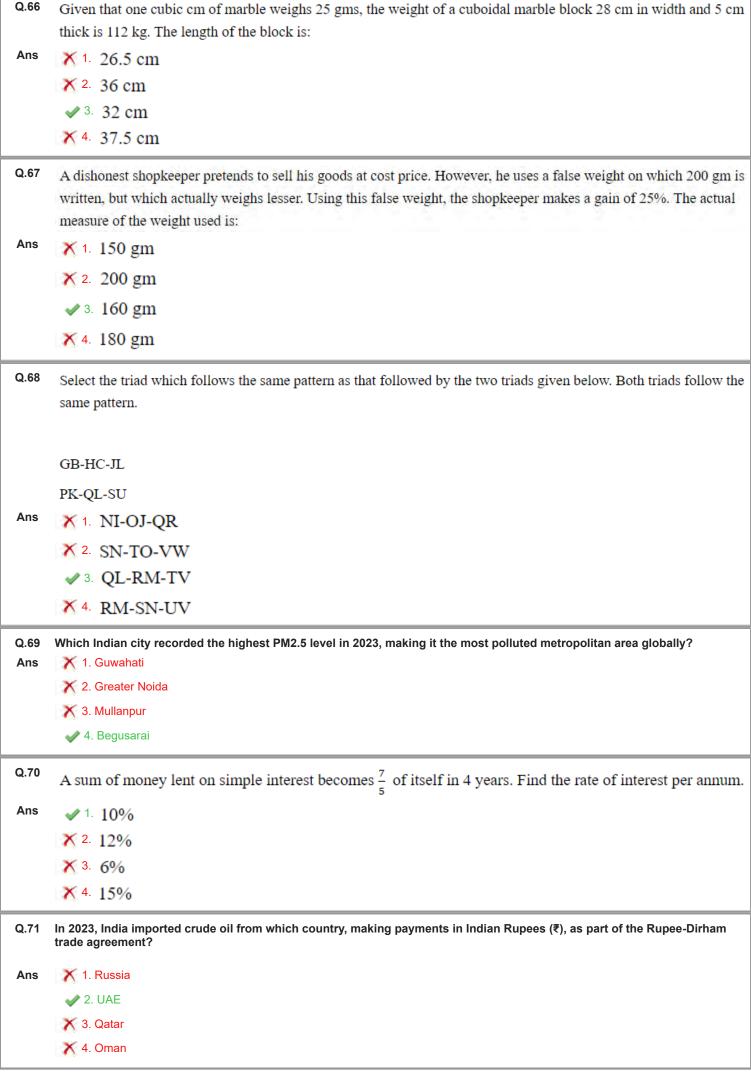
A + B means 'A is the father of B',

and A # B means 'A is the daughter of B'.

How is Q related to J if 'Q + R - P \times S \div T - J + K'?

Ans

- ✗ 1. Son's daughter
- X 2. Father's mother
- X 4. Daughter's son



```
Q.72
     Which of the following is an example of heterogeneous solution?
Ans X 1. Lemonade
     X 2. Tincture of iodine
     X 3. Mixture of ethanol and water
      Q.73
     The distance between the centre of curvature and pole of a convex mirror of 1 m focal length is
Ans X 1. 1.5 m
     X 2. 1 m

√ 3. 2 m

     X 4. 0.5 m
     Which cell has changing shapes?
Ans X 1. Smooth muscle
     X 2. Nerve cell

✓ 3. Amoeba

     X 4. Ovum
Q.75
     The median of the observations 20, 23, 25, 30, 20, 31, 32, 35, 20, 41, 42, 43, 20, 20 and 20 is:
Ans X 1. 26
      √ 2. 25
     X 3. 28
     X 4. 23
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Test Date	27/11/2024
Test Time	12:30 PM - 1:30 PM
Subject	ALP Stage 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 a certain code language,

A+B means 'A is the mother of B'.

A - B means 'A is the brother of B',

A × B means 'A is the wife of B'.

A ÷ B means 'A is the father of B'.

and A # B means 'A is the daughter of B'.

How is P related to F if 'F - E # $L \times Q$ - P # N?

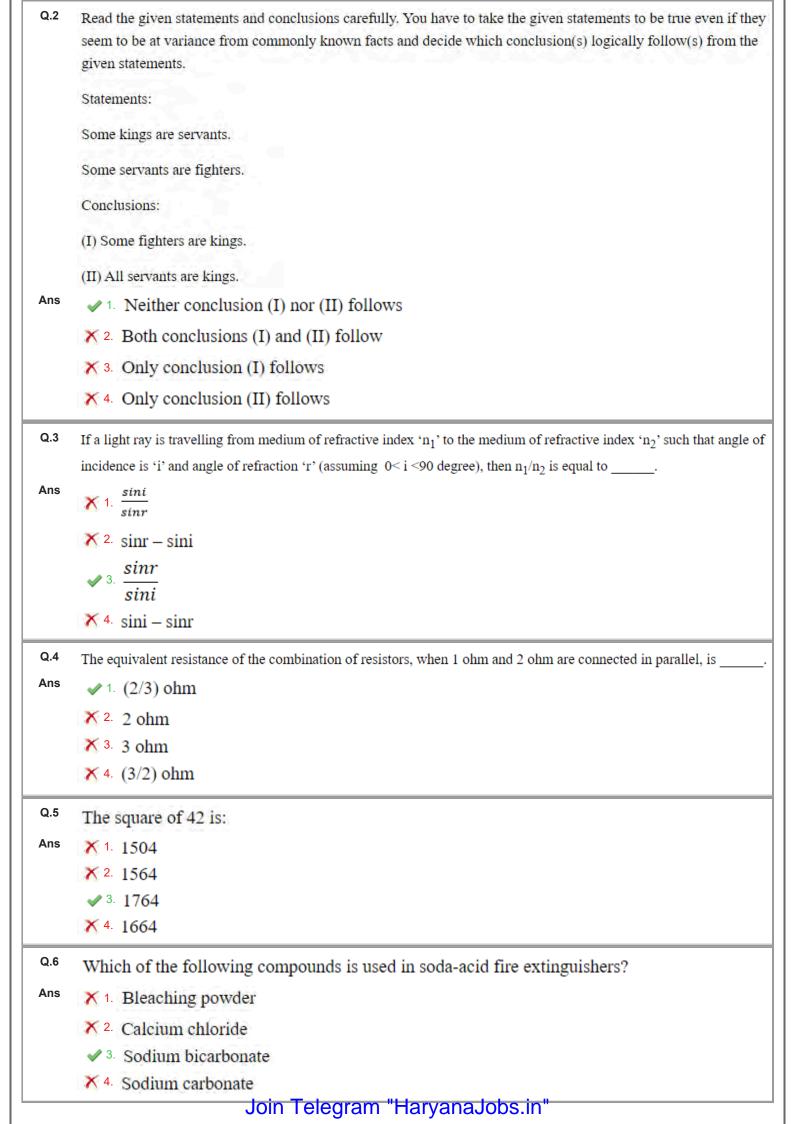
Ans

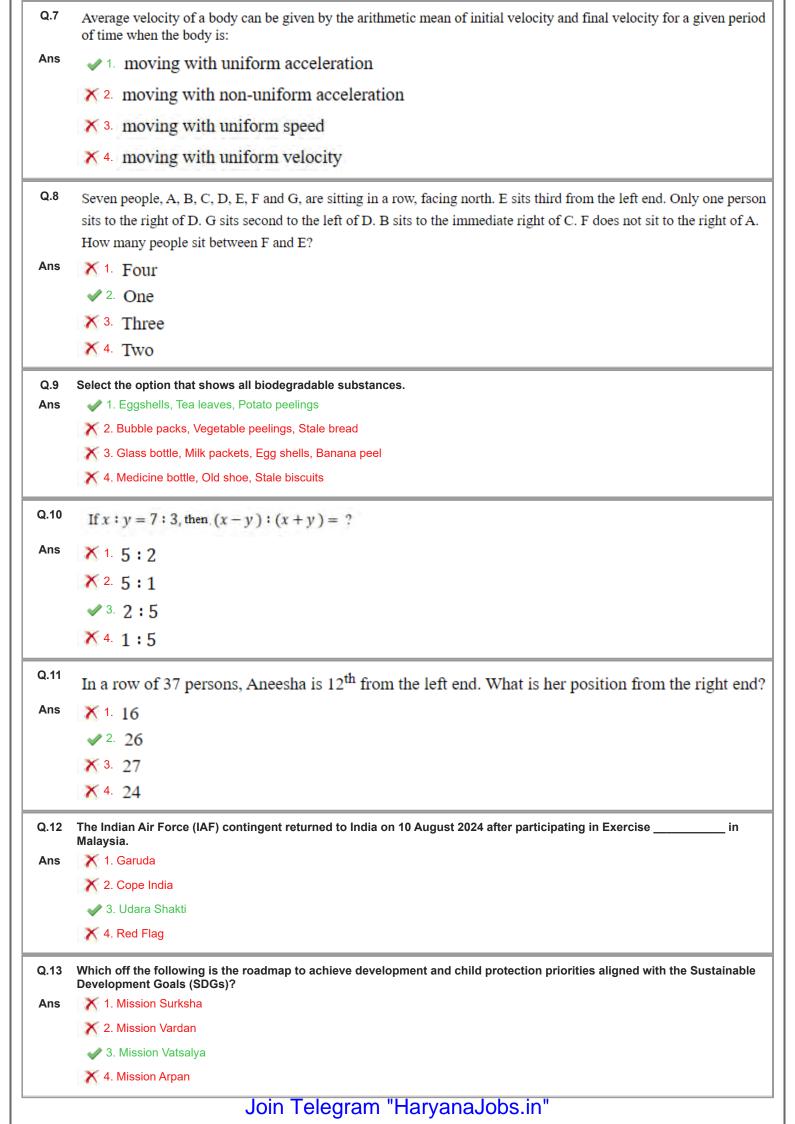
X 1 Brother's daughter

X 2. Mother's sister

3. Brother's son

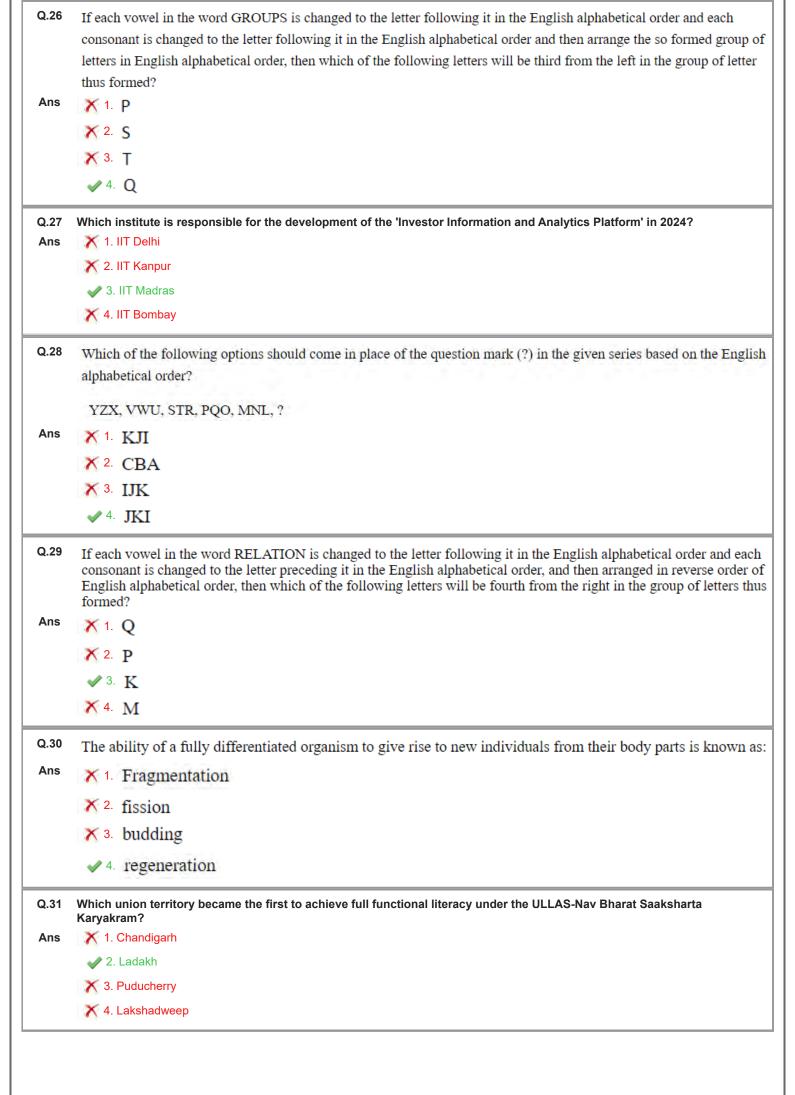
4. Father's sister

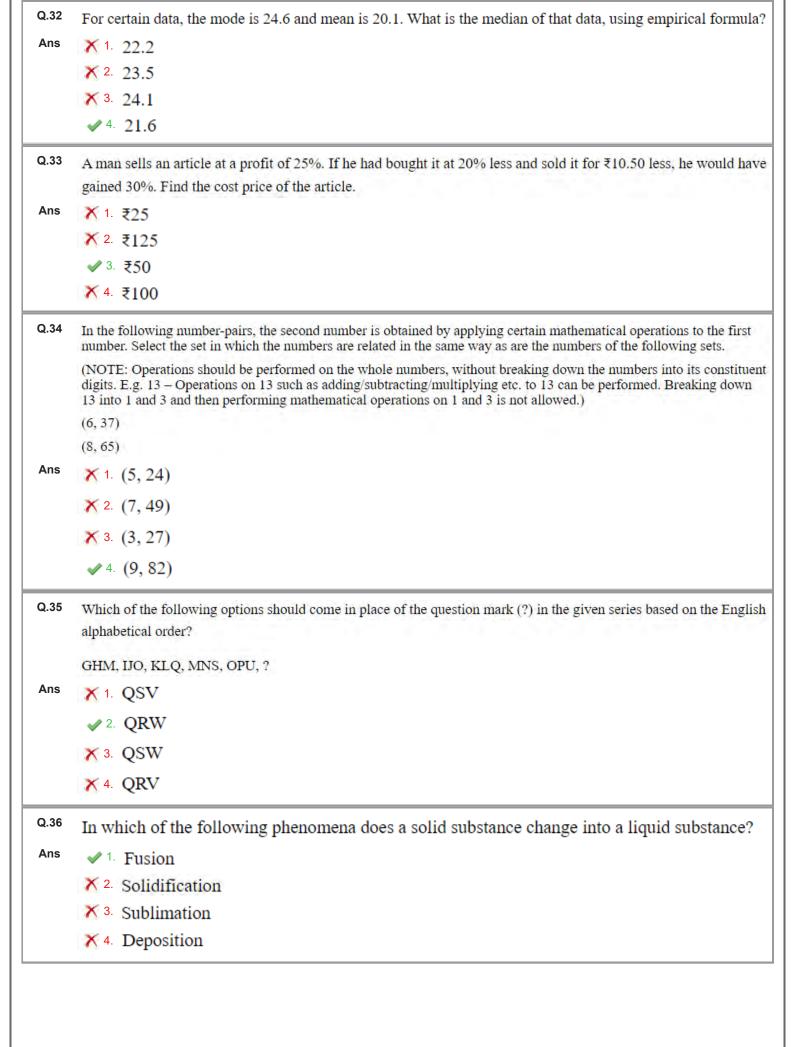


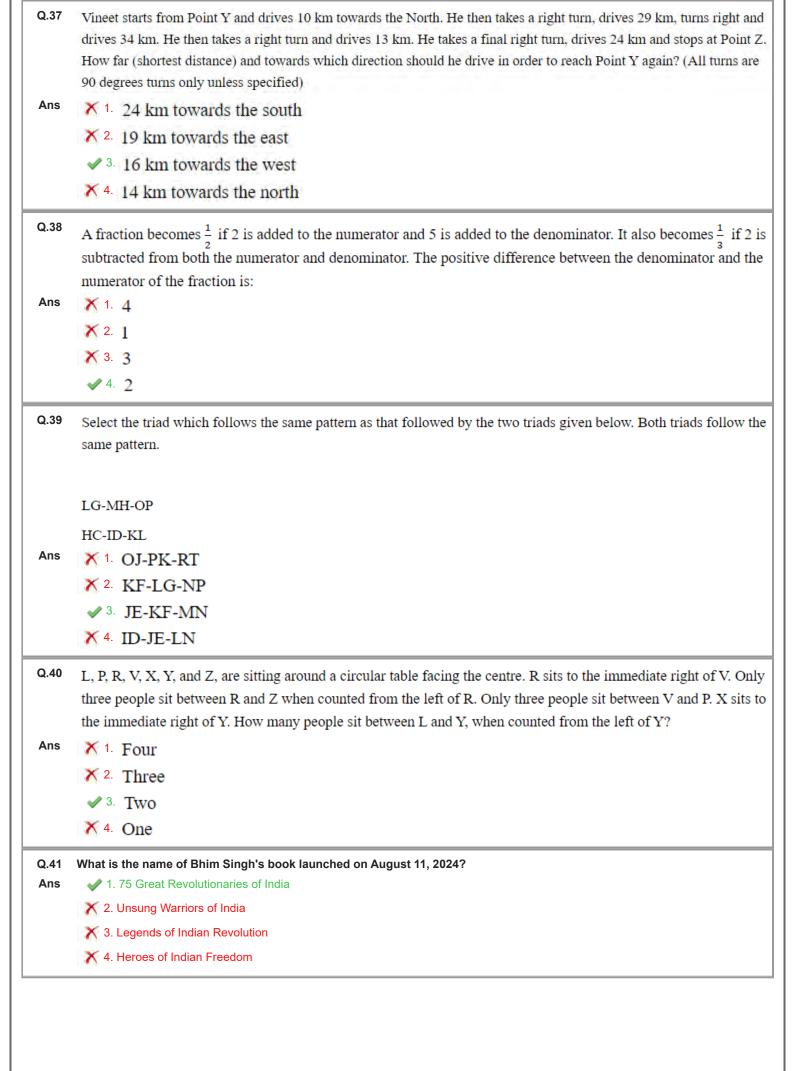


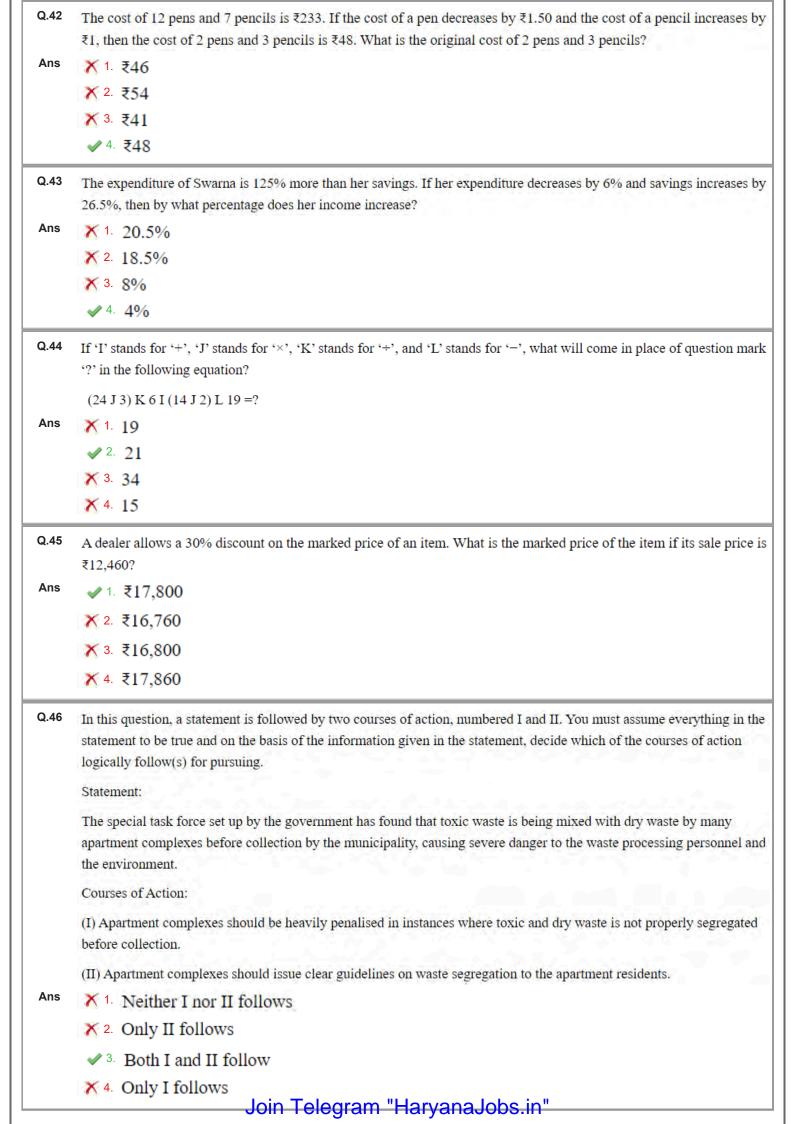
Q.14 Ans	Who among the following won the Gold medal at Paralympics in the Women's 10m air rifle standing SH1 Shooting category? 1. Amulya Choudhary
70	× 2. Manisha Agarwal
	✓ 3. Avani Lekhara
	X 4. Preeti Pal
Q.15	After a decrease of 24%, the price of an article is ₹988. The actual cost of the article is:
Ans	× 1. ₹1,400
	× 2. ₹1,100
	√ 3. ₹1,300
	× 4. ₹1,200
Q.16	The arithmetic mean of the observations 3, 6, 8, 10, 12, 14, 18, 24 and 31 is:
Ans	X 1. 17
	× 2. 16
	✓ 3. 14
	X 4. 15
Q.17	If $x + \frac{1}{x} = 4$, then $x^2 + \frac{1}{x^2} = ?$
Ans	X 1. 12
	× 2. 18
	✓ 3. 14
	№ 4. 16
Q.18	The area of the base of a rectangular tank is 6500 cm ² and the volume of water contained in it is 2.6 cubic meters. The
	depth of water in the tank is:
Ans	№ 1. 3.5 m
	✓ 2. 4 m
	X 3. 5 m
	№ 4. 6 m
Q.19 Ans	In June 2024, the Indian Army opened the Khalubar War Memorial to tourists, which is located in, India. 1. New Delhi
	✓ 2. Ladakh
	X 3. Bengaluru
	X 4. Chandigarh
Q.20	Which of the following is the longest cell in our body?
Ans	✓ 1. Nerve cell
	× 2. Ovum
	X 3. Blood cell
	X 4. Fat cell

Q.21	Select the number from among the given options that can replace the question mark (?) in the following series.
	45 95 245 695 ?
Ans	✓ 1. 2045
	× 2. 1995
	× 3. 2125
	★ 4. 2075
Q.22	The smallest four-digit number that is exactly divisible by each of 24, 40 and 56 is:
Ans	× 1. 1080
	✓ 2. 1680
	× 3. 1170
	× 4. 1260
Q.23	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.
	Statements:
	All chairs are tables.
	Some tables are beds.
	Conclusions:
	(I) All beds are chairs.
	(II) Some tables are chairs.
Ans	1. Both conclusions (I) and (II) follow
	✓ 2. Only conclusion (II) follows
	X 3. Only conclusion (I) follows
	★ 4. Neither conclusion (I) nor (II) follows
Q.24	If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same in 2 days, the time taken by 15 men and 20 boys in doing the same type of work will be:
Ans	★ 1. 5 days
	× 2. 6 days
	× 4. 7 days
Q.25	KGFL is related to OJHM in a certain way based on the English alphabetical order. In the same way, ASNP is related to
A	EVPQ. To which of the following options is MBTS related, following the same logic?
Ans	✓ 1. QEVT
	2. QEXS
	X 3. QFVT
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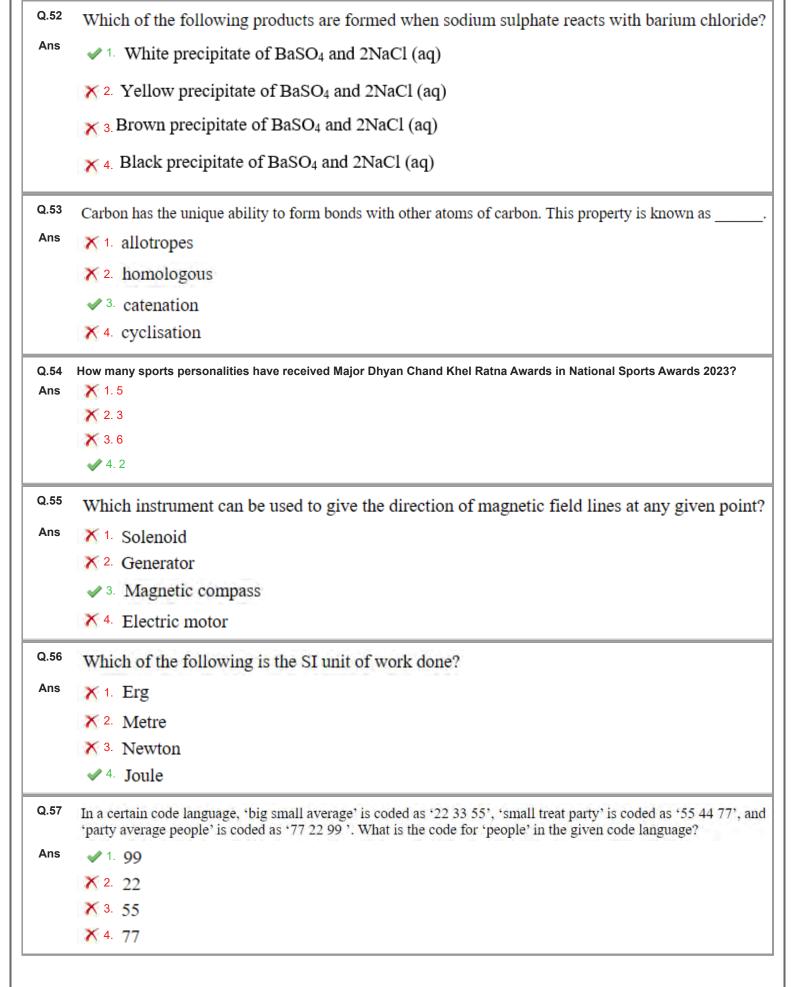


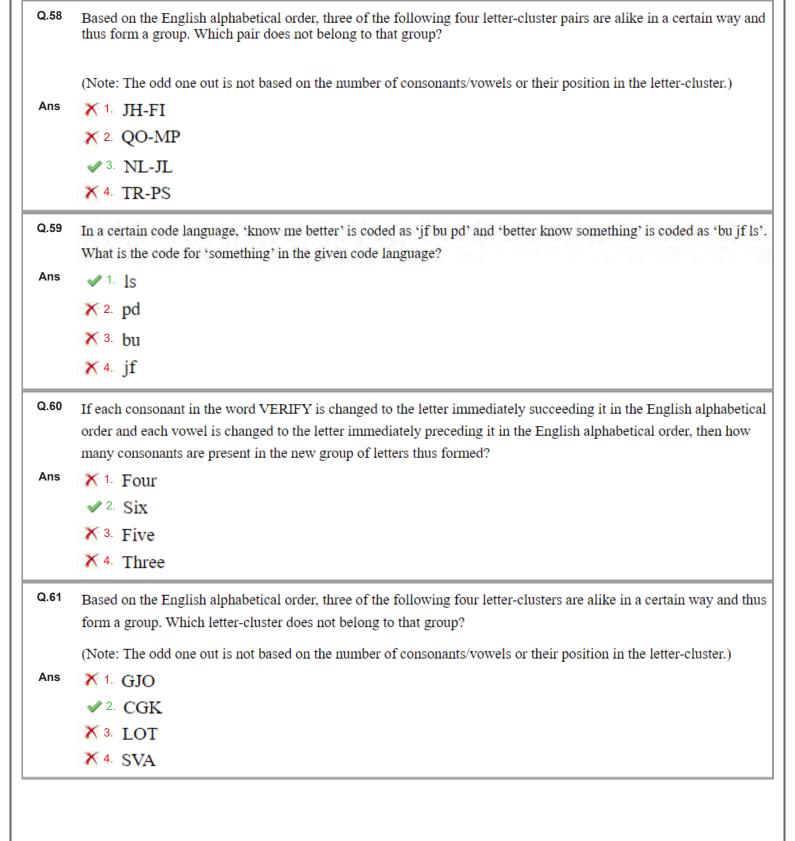


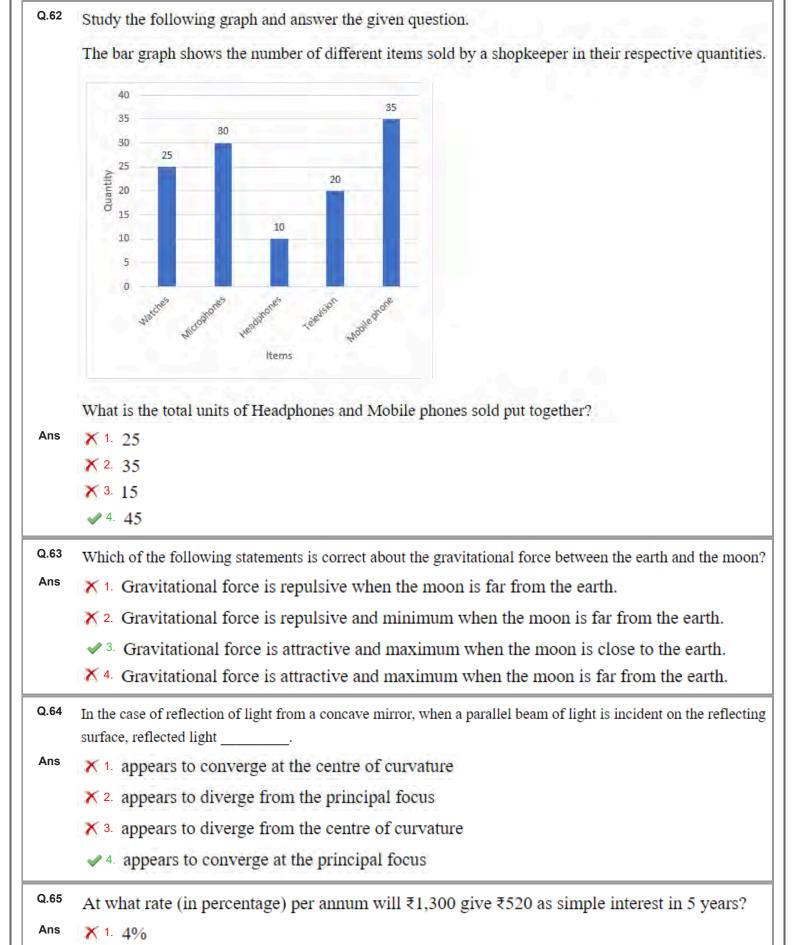




Q.47 Select the set, from the given options, in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying 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.) (2, 24, 6)(4, 32, 2)Ans 1. (3, 48, 4) **✓** 2. (6, 108, 3) **X** 3. (9, 80, 1) **X** 4. (5, 70, 3) Q.48 As of 2024, how many members are there in the steering committee of the GlobE Network, in which India has been elected as a member, as announced by the Central Bureau of Investigation (CBI)? X 1. 20 Ans **2**. 15 X 3. 12 X 4. 10 Q.49 Which two numbers should be interchanged to make the given equation correct? $(27+15) \times 2 - (95 \div 5) + 25 \times 4 - 135 = 62$ (Note: Interchange should be done of entire number and not individual digits of a given number.) Ans 1. 2 and 4 X 2. 25 and 27 3. 95 and 135 X 4. 5 and 15 Q.50 Ramesh and Suresh's mud buildings have heights of 8 cm and 15 cm respectively. They are 24 cm apart. How far are the tops of their mud buildings from each other? Ans X 1. 24 cm X 2. 30 cm √ 3. 25 cm X 4. 31 cm Q.51 Cells of the meristematic tissue are very active, but they lack: Ans X 1 dense cytoplasm √ 2. vacuoles X 3. thin cellulose walls X 4. prominent nuclei







× 2. 5% × 3. 7%

√ 4. 8%

Q.66	What percentage of solar energy is captured by green plants in terrestrial ecosystem?	
Ans	X 1. 10 percent	
	X 3. 100 percent	
	✓ 4. 1 percent	
	4. i percent	
Q.67	A thief running at a speed of 8 km/h is chased by a policeman whose speed is 10 km/h. If the thief is 100 m ahead of	
	the policeman, then the time required for the policeman to catch the thief will be:	
Ans	✓ 1. 3 minutes	
	× 2. 2 minutes	
	× 3. 6 minutes	
	× 4. 10 minutes	
Q.68	Which of the following elements is extracted by using electrolytic reduction?	
Ans	<mark>X</mark> 1. Zn	
	× 2. Fe	
	✗ 3. Pb	
	✓ 4. Na	
Q.69	The formula unit mass of CaCl ₂ is:	
Ans		
Alls	X 1. 115 u	
	2. 114 u	
	✓ 3. 111 u	
	№ 4. 110 u	
Q.70	If the surface area of a sphere is $2124\frac{4}{7}$ cm ² , then what is the diameter of that sphere? [Use $\pi = \frac{22}{7}$]	
Ans	✓ 1. 26 cm	
	× 2. 28 cm	
	× 3. 13 cm	
	× 4. 14 cm	
Q.71	Which of the following hormones stimulates the growth of all organs?	
Ans	X 1. Adrenaline	
	× 2. Glucagon	
	× 3. Insulin	
	✓ 4. Growth hormone	
Q.72		
	The internal bisectors of $\angle Q$ and $\angle R$ of $\triangle PQR$ meet at S. If $m\angle P = 75^{\circ}$, then $m\angle QSR$ is:	
Ans	X 1. 105.5°	
	X 2. 102.5 °	
	X 3. 112.5°	

Q.73 Ans	Which award has been conferred to Ms. Prema Dhanraj in the field of Medicine in 2024? 1. Bharat Ratna	
	X 2. Padma Bhusan	
	✓ 3. Padma Shri	
	4. Padma Vibhusan	
Q.74	A solution contains 25 g of copper chloride salt in 250 g of water. Calculate the concentration in terms of mass by mass percentage of the solution.	
Ans	✓ 1. 9.09%	
	× 2. 36.01%	
	× 3. 18.01%	
	× 4. 27.01%	
Q.75	Which of the following fractions is greater than $\frac{2}{3}$ and less than $\frac{4}{5}$?	
Ans	✓ 1. $\frac{3}{4}$	
	× 2. $\frac{1}{2}$	
	$\frac{8}{6}$ 3. $\frac{5}{6}$ $\frac{9}{11}$	
	× 4. $\frac{9}{11}$	

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Test Date	27/11/2024
Test Time	4:30 PM - 5:30 PM
Subject	ALP Stage 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 statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the courses of action logically follow(s) for pursuing.

Statement:

Despite the teacher's several warnings, a student was caught cheating in the exam.

Courses of Action:

- I. The student should be expelled from the exam, and his paper should be cancelled.
- II. The teacher should leave the student with another warning.

Ans

- 1. Only I follows.
- 2. Only II follows.
- X 3. Neither I nor II follows.
- A. Both I and II follow.
- Q.2 How much venture capital fund would be set up for space economy in India as announced by the Finance Minister in the Annual Financial Statement 2024-25?

Ans

- X 1. ₹500 crore
- X 2. ₹1,500 crore
- 3. ₹1,000 crore
- X 4. ₹700 crore
- Q.3 An object is placed at distance of 20cm in front of a concave mirror and it's image is formed at a distance of 60cm on the same side as the object, the magnification produced by the mirror will be:

- \times 1. +3
- X 2. 1/3
- X 3. + 1/3
- **√** 4. **-** 3

```
Q.4
      1 C charge contains:
    \times 1. 6 × 10<sup>19</sup> electrons
Ans
       \checkmark 2. 6 × 10<sup>18</sup> electrons
      \times 3. 6 × 10<sup>17</sup> electrons
      \times 4. 6 × 10<sup>20</sup> electrons
Q.5
      What sum will earn a simple interest of ₹480 in 3 years at 16% per year rate of interest?
Ans
     × 1. ₹600
       2. ₹1,000
      X 3. ₹1,200
      X 4. ₹800
Q.6
      IMOL is related to PTVS in a certain way based on the English alphabetical order. In the same way, FJLI is related to
      MQSP. To which of the following options is KOQN related, following the same logic?
Ans
      X 1. QUWT

√ 2. RVXU

      X 3. RUVX
      X 4. QUWX
Q.7
      A shopkeeper bought an article for ₹319.60. Approximately, at what price should he sell the article to make a 25%
      profit?
Ans
     X 1. ₹450

√ 2. ₹400

      X 3. ₹600
      X 4. ₹500
Q.8
      Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to
      right only.
      (Left) 3 Ω 9 # 1 4 6 @ 8 S 2 & % 7 & * £ 5 (Right)
      How many such numbers are there, each of which is immediately preceded by a number and also immediately followed
      by a symbol?
Ans

★ 1 Zero

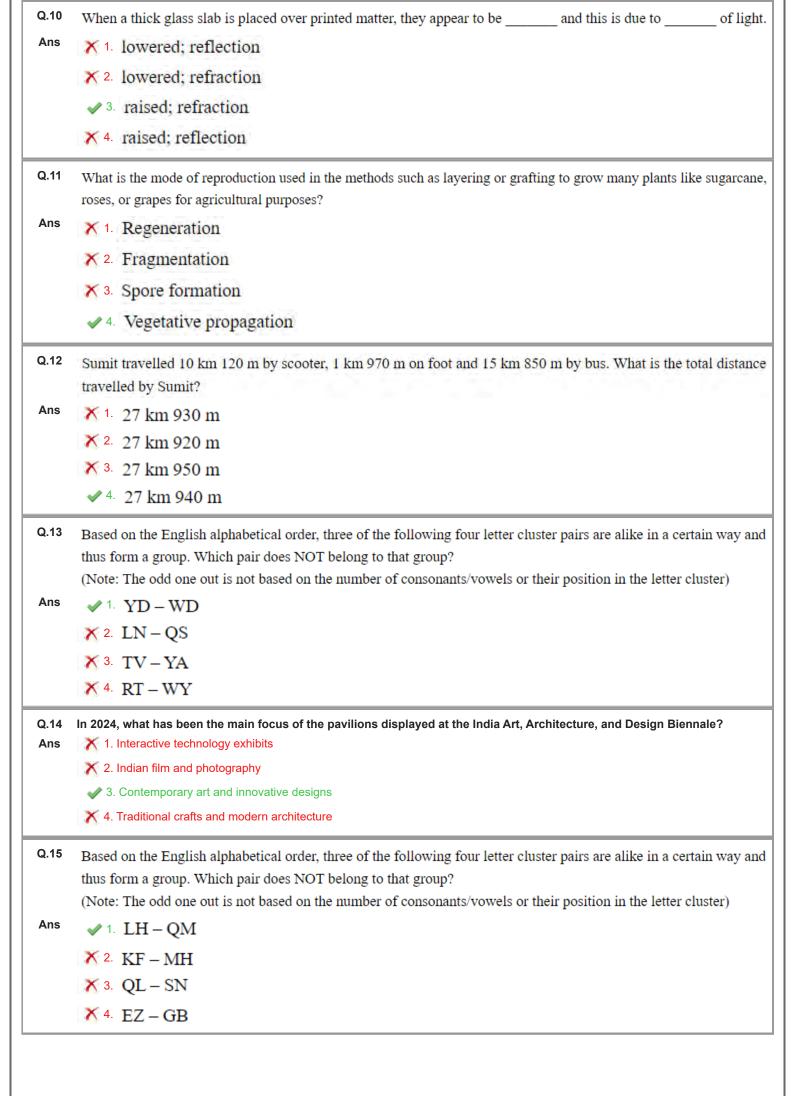
      X 2. Two

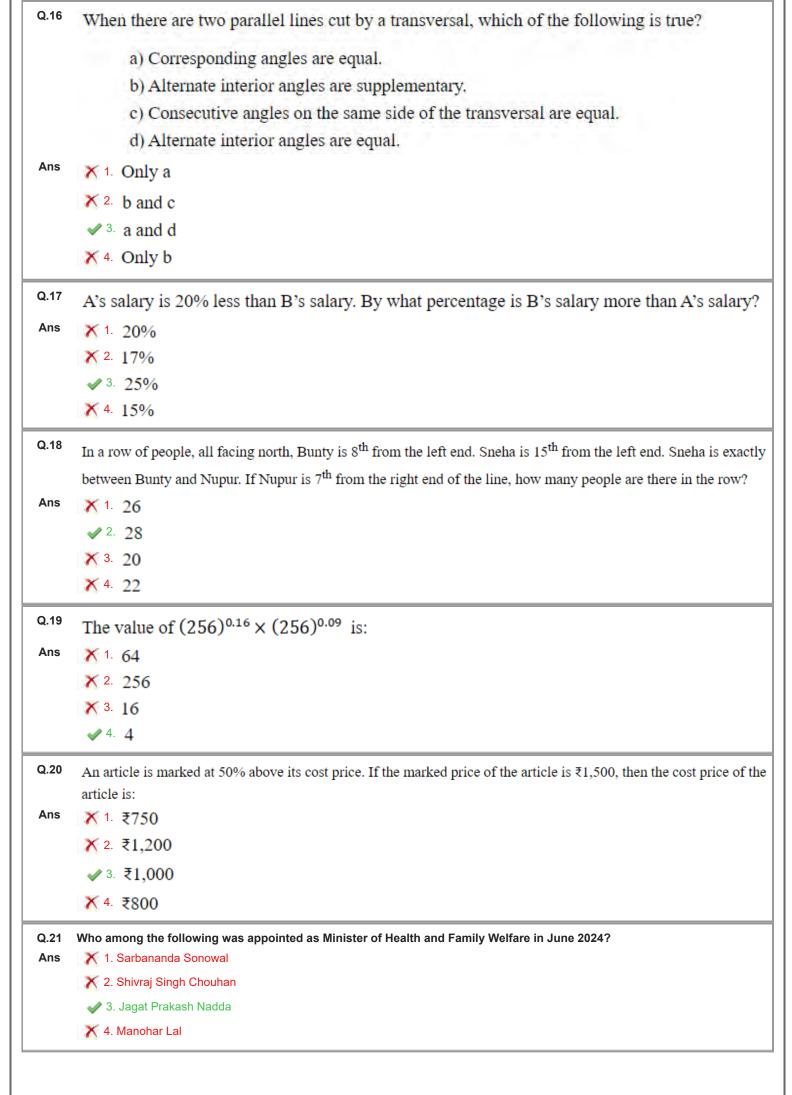
 More than two

       Q.9
      Which of the following options should come in place of the question mark (?) in the given series based on the English
      alphabetical order?
      JFH, KGI, LHJ, MIK, ?
Ans

✓ 1. NJL

      X 2. JNL
       ※ 3. JLN
       X 4. NLJ
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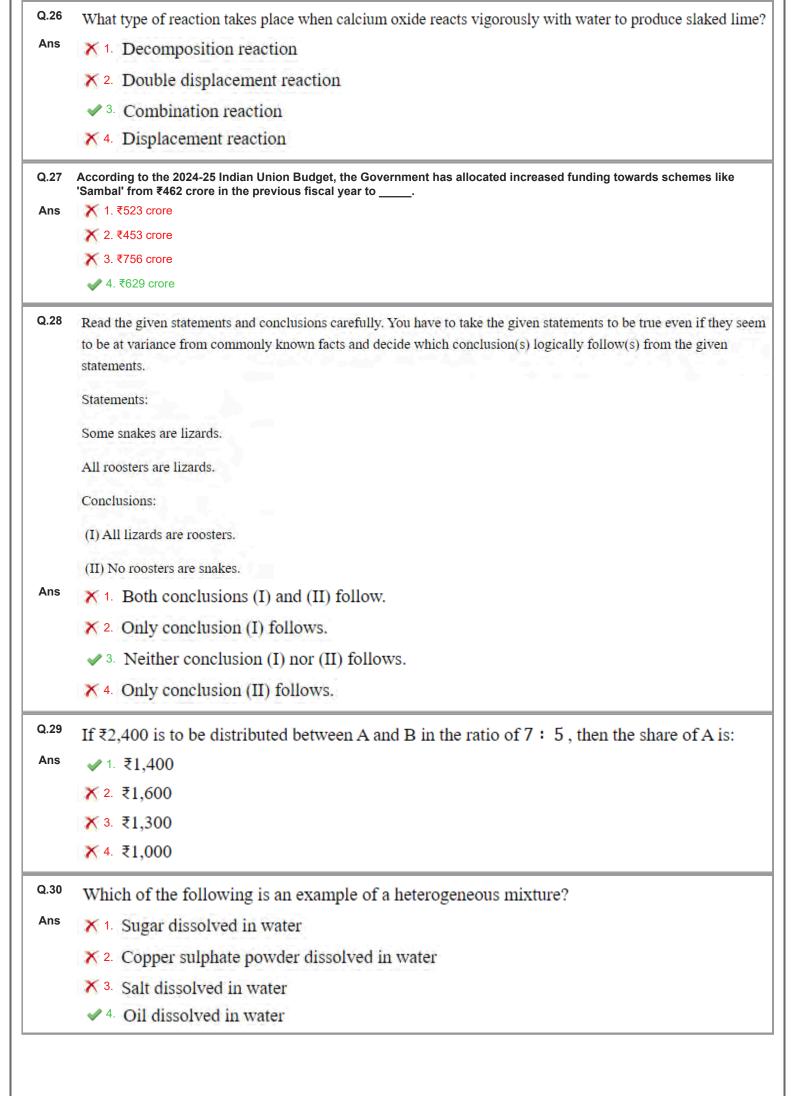




Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Left) @ 6 8 \$ 9 # 1 * £ 4 7 & 2 & % 3 Ω 5 (Right) How many such numbers are there, each of which is immediately preceded by a number and also immediately followed by a symbol? Ans 1. One √ 2. Two X 3. Zero More than two

Mo Q.23 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements. Statements: No horses are mirrors. Some lizards are horses. Conclusions: (I) Some horses are not lizards. (II) Some lizards are not mirrors. Ans 1. Neither conclusion (I) nor (II) follows 2. Both conclusions (I) and (II) follow 3. Only conclusion (II) follows X 4. Only conclusion (I) follows Q.24 If the perimeter of one face of a cube is 48 cm, then its volume is: Ans 1. 729 cm³ ✓ 2. 1728 cm³ X 3. 512 cm³ X 4. 1024 cm³ Q.25 If $sec 4A = cosec (3A - 50^{\circ})$, where 4A and 3A are acute angles, find the value of $cosec (A + 25^{\circ})$. Ans X 1. 0 χ 2. $\frac{1}{\sqrt{2}}$ X 3. 1 **√** 4. √2

Q.22



Ans		which gas is passed through calcium hydroxide to form calcium carbonate and water:
## 3. Carbon-dioxide gas * 4. Hydrogen gas ## 4. Hydrogen gas ## 4. Hydrogen gas ## 4. How many electrons does carbon typically share when bonding with another carbon atom or with atoms of other elements? ## Ans ## 4. 1 ## 6. ## 2. 2 * 3. 4 * 4. 1 ## 4. 1 ## 9. ** ## 1. 9 * 2. 5 * 3. 8 * 4. 3 ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 3 ## 3. ** ## 4. 1 2 m towards the South ## 2. 7 m towards the South ## 2. 7 m towards the South ## 3. 7 m towards the South ## 4. 5 m towards the North ## 9. ** ## 9. ** ## 9. ** ## 9. ** ## 9. ** ## 9. ** ## 9. ** ## 1. Plant bodies have a small proportion of dead cells in many tissues. ## 4. ** ## 5. ** ## 4. ** ## 1. Plant bodies have a small proportion of dead cells in many tissues. ## 4. ** ## 5. ** ## 6. **	Ans	★ 1. Helium gas
How many electrons does carbon typically share when bonding with another carbon atom or with atoms of other elements? Ans X 1. 6 X 2. 2 X 3. 4 X 4. 1 Q.33 In a certain code language, 'SOLVE' is coded as '36598', 'STORE' is coded as '39164', and 'WHOLE' is coded as '27689'. What is the code for 'V' in the given code language? Ans X 1. 9 X 2. 5 X 3. 8 X 4. 3 Q.34 Anits starts from her house at Point A and walks 5 m towards South. She takes a right turn, walks 7 m, takes another right and walks 12 m and stops at point P. If a pole is placed 7 m towards East from where she stopped (Point P), how far (shortest distance) and in which direction will her house be from the pole? (All turns are 90 degrees turns only unless specified.) Ans X 1. 12 m towards the South X 2. 7 m towards the South X 4. 5 m towards the North Q.36 Justify the given statement. 'Plants have low energy needs'. Ans X 1. Plant bodies have a small proportion of dead cells in many tissues. X 2. As the plants use relatively fast transport systems. X 3. Because plants are autotropic organisms and prepare their own food. Ans Ans Energy needs differ between different body designs. Plants do not move and have a large proportion of dead cells in		× 2. Oxygen gas
How many electrons does carbon typically share when bonding with another carbon atom or with atoms of other elements? Ans X 1. 6 X 2. 2 X 3. 4 X 4. 1 Q.33 In a certain code language, 'SOLVE' is coded as '36598', 'STORE' is coded as '39164', and 'WHOLE' is coded as '27689'. What is the code for 'V' in the given code language? Ans X 1. 9 X 2. 5 X 3. 8 X 4. 3 Q.34 Anits starts from her house at Point A and walks 5 m towards South. She takes a right turn, walks 7 m, takes another right and walks 12 m and stops at point P. If a pole is placed 7 m towards East from where she stopped (Point P), how far (shortest distance) and in which direction will her house be from the pole? (All turns are 90 degrees turns only unless specified.) Ans X 1. 12 m towards the South X 2. 7 m towards the South X 4. 5 m towards the North Q.36 Justify the given statement. 'Plants have low energy needs'. Ans X 1. Plant bodies have a small proportion of dead cells in many tissues. X 2. As the plants use relatively fast transport systems. X 3. Because plants are autotropic organisms and prepare their own food. Ans Ans Energy needs differ between different body designs. Plants do not move and have a large proportion of dead cells in		
elements? Ans		
elements? Ans		
X 2 2 3 3 4 X 4 1 Q.33 In a certain code language, 'SOLVE' is coded as '36598', 'STORE' is coded as '39164', and 'WHOLE' is coded as '27689'. What is the code for 'V' in the given code language? Ans X 1. 9 4 2 5 X 3. 8 X 4. 3 Q.34 Anita starts from her house at Point A and walks 5 m towards South. She takes a right turn, walks 7 m, takes another right and walks 12 m and stops at point P. If a pole is placed 7 m towards East from where she stopped (Point P), how far (shortest distance) and in which direction will her house be from the pole? (All turns are 90 degrees turns only unless specified.) Ans X 1. 12 m towards the South X 2. 7 m towards the East 3 3 7 m towards the South X 4. 5 m towards the North Q.35 Justify the given statement. "Plants have low energy needs". X 1. Plant bodies have a small proportion of dead cells in many tissues. X 2. As the plants use relatively fast transport systems. X 3. Because plants are autotropic organisms and prepare their own food. 4 4. Energy needs differ between different body designs. Plants do not move and have a large proportion of dead cells in	Q.32	, , , , , , , , , , , , , , , , , , , ,
 	Ans	★ 1. 6
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Q.36	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	TVX, SUW, RTV, QSU, ?
Ans	X 1. RPT
	× 2. PTR
	X 4. RTP
Q.37	CKQR is related to FITP in a certain way based on the English alphabetical order. In the same way, WERN is related to
	ZCUL. To which of the following options is BOLJ related, following the same logic?
Ans	X 1. DNOK
	× 2. DMNJ
	✓ 3. EMOH
	X 4. FNNH
Q.38	Who among the following is the author of the book 'I Have the Streets - A Kutty Cricket Story'?
Ans	✓ 1. Ravichandran Ashwin
	X 2. Sachin Tendulkar
	3. Sourav Ganguly
	X 4. Kuldeep Yadav
Q.39	If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+', and 'D' stands for '-', what will come in place of the
	question mark '?' in the following equation?
	55 C 7 D 54 A 9 B 8=?
Ans	√ 1. 14
	× 2. 24
	× 3. 34
	× 4. 41
Q.40	What is the primary purpose of the Artara'24 Fine Arts Exhibition and Competition?
Ans	X 1. To promote art tourism
	X 2. To conduct art workshops
	X 3. To sell artworks
	✓ 4. To discover and nurture emerging artistic talents
Q.41	In a certain code language, 'GIRL' is coded as '1539' and 'ROSE' is coded as '6825'. What is the code for 'R' in the
	given code language?
Ans	✓ 1. 5
	× 2. 8
	₹ 3. 6

Q.42	Which gland secretes Adrenaline?		
Ans	1. Thyroid gland		
	✓ 2. Adrenal gland		
	X 3. Pineal gland		
	× 4. Pituitary gland		
Q.43	The average of 10 observations is 46. It was realised later that an observation was misread as 42 in place of 142. Find the correct average.		
Ans	✓ 1. 56		
	× 2. 45		
	× 3. 54		
	₹ 4. 65		
Q.44	If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same work in 2 days, then the time taken by 20 men for doing the same piece of work will be:		
Ans	1. 4 days		
	× 4. 3 days		
Q.45	A, B, C, D, E and F are sitting around a circular table facing the centre. A sits second to the right of E. F is the immediate neighbour of D and E. C sits second to the left of B.		
	What is the position of F with respect to C?		
Ans	1. Third to the right		
	× 2. Immediate right		
	X 4. Third to the left		
Q.46	Which of the following statements regarding an atom is correct?		
Ans	★ 1. Atoms are not electrically neutral.		
	X 2. An atom does not contain any positive charge		
	★ 4. Atoms are partially electrically neutral.		
Q.47	A cubic wooden block of side 2 m is lying on a tabletop. If the mass of the wooden block is 10 kg, then the pressure		
	exerted by the wooden block on the tabletop is: (consider $g = 10 \text{ m/ s}^2$)		
Ans	✓ 1. 25 N m ⁻²		
	× 2. 30 N m ⁻²		
	X 3. 20 N m ^{−2}		
	× 4. 15 N m ⁻²		
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Q.48	A 3-digit number is such that the units' digit, the tens' digit and the hundreds' digit are in the ratio 1:2:3. The sum of
Ans	this number and the number obtained by writing its digits in reverse order is 1332. Find the number.
Alls	X 1. 123
	× 2. 246
	✓ 3. 963
	× 4. 414
Q.49	Which of the following teams was the winner of the 10 th season of Pro Kabaddi League?
Ans	1. Pink Panthers
	✓ 2. Patna Pirates✓ 3. Puneri Paltan
	3. Furieri Partari
	The span decolor
Q.50	Which of the following is the unit of acceleration?
Ans	× 1. ms
	\times 2. m s ²
	X 4. m/s
Q.51	Seven people, A, B, C, D, E, F and G are sitting in a row, facing north. Only two people sit to the right of C. Only two
	$people\ sit\ between\ D\ and\ C.\ A\ sits\ to\ the\ immediate\ right\ of\ D.\ E\ sits\ to\ the\ immediate\ left\ of\ G.\ B\ sits\ second\ to\ the\ left$
	of A.
	How many people sit between B and F?
Ans	★ 1. Three
	✓ 2. Two
	× 3. One
	× 4. Four
Q.52	5118 is divisible by:
Ans	√ 1. 6
	× 2. 7
	× 3. 8
	X 4. 5
Q.53	The average of the first twelve multiples of 11 is:
Ans	X 1. 70.5
	× 2. 69.5
	3. 68.5
	✓ 4. 71.5

Q.54	What happens when we increase the temperature of solids?			
Ans	1. The kinetic energy of the particles will decrease.			
	₹ 2. The shape of the solid will remain same.			
	✓ 3. The kinetic energy of the particles will increase.			
	X 4. No effect of temperature on solids.			
Q.55	The pattern of the magnetic field lines produced by a current carrying conductor:			
Ans	Ans 1 depends on the length of the conductor			
	✓ 2. depends on the shape of the conductor			
	x 3 is independent of anything related to the conductor			
	× 4. depends on the thickness of the conductor			
Q.56	has been awarded the title of India's Fastest Growing Sustainable Brand for 2023-24.			
Ans	X 1. Suzion Energy			
	2. Adani Green Energy			
	✓ 3. Gruner Renewable Energy			
	4. Tata Renewable Energy			
Q.57	If the radius of a sphere is increased by 50%, find the percent increase in the surface area.			
Ans	√ 1. 125%			
	× 2. 95%			
	× 3. 100%			
★ 4. 115%				
Q.58	Under the NPS Vatsalya scheme, subsequent contribution of what minimum amount is required per annum with no maximum limit?			
Ans	X 1. ₹2,500			
	× 2. ₹500			
	X 3. ₹5,000			
	√ 4. ₹1,000			
Q.59	In 2024, the Royal Australian Air Force debuted its combat aircraft in India during Exercise Tarang Shakti at which location?			
Ans	1. Air Force Station, Pune			
	2. Air Force Station, Gwalior			
	✗ 3. Air Force Station, Agra✓ 4. Air Force Station, Jodhpur			
	4. All Force Station, Journal			
Q.60	Where does the following reaction take place in a cell? The breakdown of glucose, a six-carbon molecule, into a three-carbon molecule.			
Ans	1. In the mitochondria			
	X 2. In the nucleus			
	X 3. In the Golgi apparatus			
	✓ 4. In the cytoplasm			

number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X:523::9:Y Ans X = 9, Y = 294 \times 2. X = 13, Y = 250 X = 15, Y = 286 \checkmark 4. X = 11, Y = 225Q.62 In a certain code language, 'A + B' means 'A is the mother of B', 'A - B' means 'A is the brother of B', 'A x B' means 'A is the wife of B' and 'A + B' means 'A is the father of B'. How is M related to T if 'M - N \div P + S x T'? Ans ✓ ¹ Wife's mother's father's brother X 2. Wife's father's brother 3. Wife's mother's mother's father Wife's father's father's brother

Very description of the state of Q.63 What is the product of (x + a) and (x + b)? Ans $x^2 + (a - b)x + ab$ $x^2 + (a + b)x - ab$ x^3 $x^2 + (a - b)x - ab$ \checkmark 4. $x^2 + (a + b)x + ab$ Q.64 Which of the following options should come in place of the question mark (?) in the given series?

In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first

Q.61

14 15 18 23 30 ?

X 1. 37

√ 2. 39

× 3. 40 × 4. 41

Q.65 A train travelling at a speed of 45 km/h crosses a pole in 24 sec. What is the length of the train? Ans 🔀 1. 125 m √ 2. 300 m X 3. 30 m X 4. 1.5 m Q.66 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X:711::146:Y Ans X = 218, Y = 456 \checkmark 2. X = 252, Y = 393 \times 3. X = 237, Y = 418 \times 4. X = 269, Y = 379Q.67 What is used to make drinking water free from germs? Ans X 1. Washing soda 2. Sodium hydroxide X 3. Baking soda 4. Bleaching powder Q.68 Which of the following controls bladder pressure? Ans 1. Kidneys X 2. Heart 3. Nervous system X 4. Blood Pressure Q.69 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Left) 7 8 & S & 2 @ % 4 6 3 Ω £ 5 1 9 # * (Right) How many such numbers are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol? Ans ✓ 1. One 2. More than two X 3. Two X 4. Zero

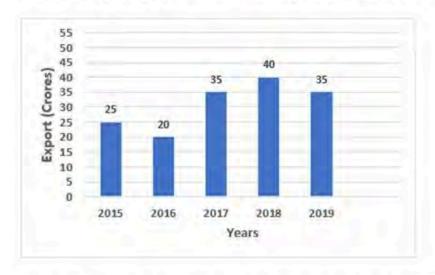
Q.70 The monthly income of a person is ₹13,500, and his monthly expenditure is ₹9,000. Approximately what percentage of his monthly income does he save monthly?

Ans

- X 1. 21%
- X 2. 25%
- X 3. 28.57%
- √ 4. 33.33%

Q.71 Study the following graph and answer the given question.

The following bar graph shows annual exports (in crore) of a company during the period 2015 to 2019.



What is the average export (in crore) of the year 2016 and 2018?

Ans

- **√** 1. 30
- X 2. 70
- X 3. 90
- X 4. 60

Q.72 Identify one example of change taking place at puberty that can signify sexual maturation.

Ans

- X 1. Mood swings
- X 2. Behaving differently
- 3. New hair-growth patterns
- X 4. Increase in height

Q.73 The sum of the ages of a mother, son and daughter is 70 years. If the mother is thrice as old as her son, and the daughter is 5 years older than her brother, how old is the mother?

- 1. 35 years
- 🗶 2. 45 years
- \chi 4. 42 years

```
Q.74
       A body of mass m is taken from the ground to a height h, the gravitational potential energy of the body will be:
       Acceleration due to gravity is g.
Ans

√ 1. mgh

       X 2. mg/h
       X 3. mxh
       X 4. m x g
Q.75
      If A means +, B means -, C means ×, D means ÷, then what will come in place of the question mark (?) in the following
      equation?
       10 B 27 D 9 A 4 C 3 = ?
Ans
     X 1. 20
      × 2. 17
       √ 3. 19
       X 4. 18
```

2024/12/02-21:20:51



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	28/11/2024
Test Time	9:00 AM - 10:00 AM
Subject	ALP Stage 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 The area of the largest triangle that can be inscribed in a semi-circle of radius 6 cm is:

Ans

Q.2 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?

RJZ, PMW, NPT, LSQ, ?

Ans

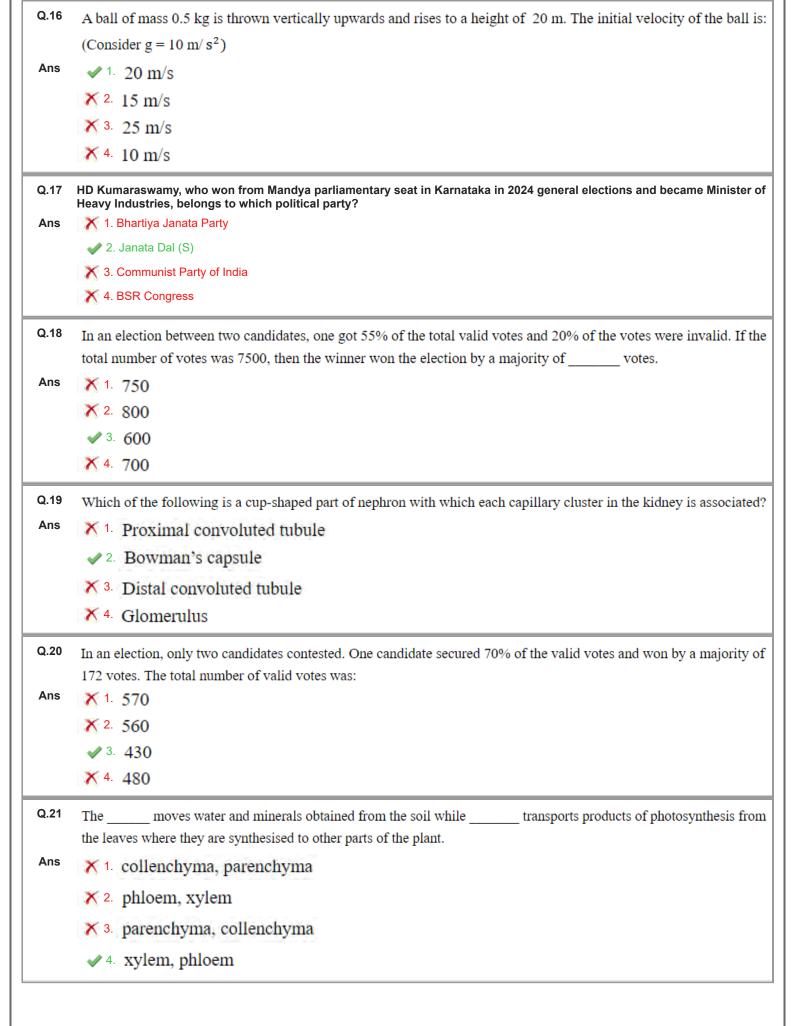
Q.3 A sum of money, on compound interest, amounts to ₹578.40 in 2 years and to ₹614.55 in 3 years. The rate of interest per annum, in case of annual compounding, is:

🗶 1. 8
$$\frac{1}{3}$$
 %

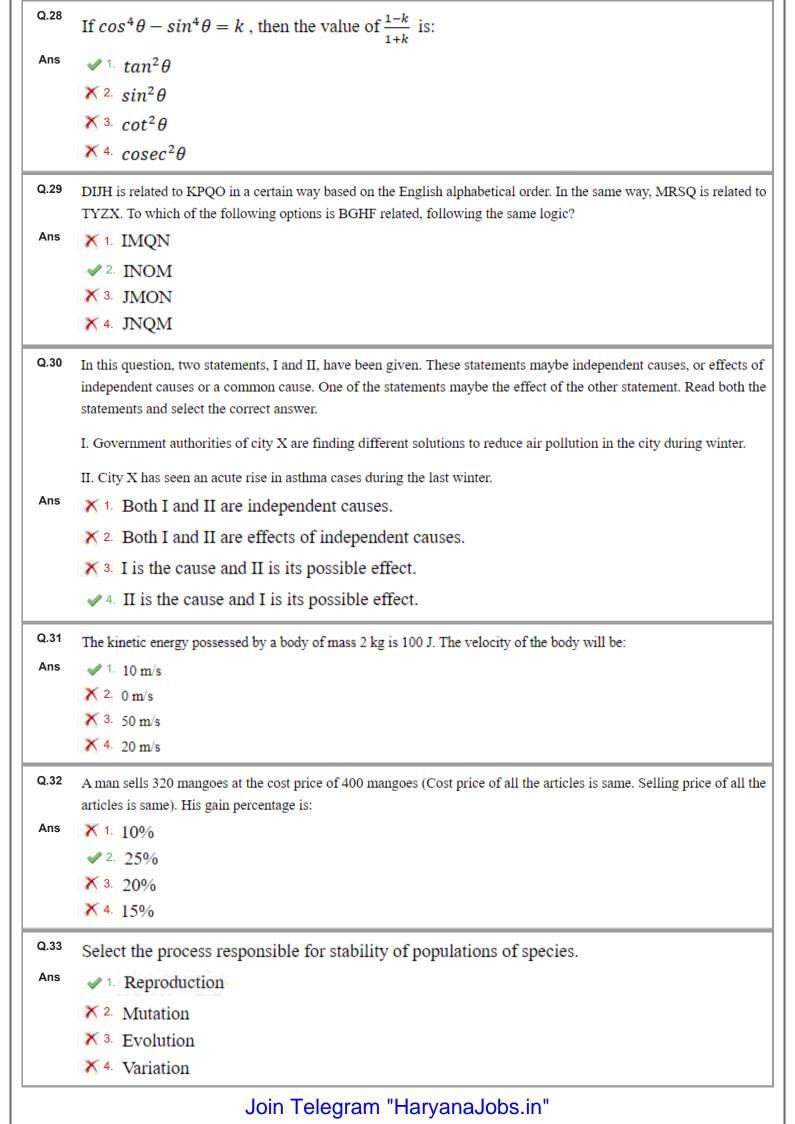
Q.4 The problem of myopia in human eye can be corrected by using: Ans ★ 1 a biconvex lens of suitable power 2. a plain glass plate 3. a concave lens of suitable power × 4. a convex lens of suitable power Q.5 Anju ranked 18th from the bottom and 15th from the top in his class. How many students are there in his class? Ans √ 1. 32 X 2. 33 X 3. 31 X 4. 21 Q.6 The distance between the pole and focus of a spherical mirror, in terms of its radius of curvature R, is equal to: Ans √ 1. R/2 X 2. R/4 X 3. 2R X 4. R Q.7 On 26 June 2024, the Defence Research and Development Organisation (DRDO) handed over which of the following to the Indian Navy? X 1. Long Range Surface-to-Air Missile Ans X 2. Advanced Torpedo X 3. Anti-Submarine Warfare Helicopter 4. Medium Range-Microwave Obscurant Chaff Rocket (MR-MOCR) **Q.8** Which of the following solutions is identified by smell? Ans X 1. Sugar in water 2 Salt in water X 3. Potassium permanganate in water 4 Dettol in water Q.9 In the following number pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X:23::476:Y Ans \checkmark 1. X = 322, Y = 34 \times 2. X = 368, Y = 27X = 346, Y = 29X = 314, Y = 21

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Q.10	What is the least positive number that can be added to 2488 so that it is completely divisible by 3, 4, 5 and 6?
Ans	X 1. 34
	× 2. 28
	✓ 3. 32
	× 4. 42
Q.11	Which of the following teams was the winner of the 17 th Edition of Indian Premier league in 2024?
Ans	✓ 1. Kolkata Knightriders
	X 2. Mumbai Indians
	X 3. Delhi Capitals
	X 4. Gujarat Titans
Q.12	If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+', and 'D' stands for '-', what will come in place of the
	question mark '?' in the following equation?
	121 C 21 D 11 A 11 B 121=?
Ans	× 1. 11
	× 2. 31
	✓ 3. 21
	× 4. 41
Q.13	What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are
	interchanged?
	$8 \times 2 + 3 - 2 \div 6 = ?$
Ans	X 1. 14
	× 2. 11
	× 3. 12
	✓ 4. 13
Q.14	If the perimeters of two similar triangles ABC and DEF are 75 cm and 40 cm respectively, and if \overline{BC} is 15 cm, then the
	length of EF is:
Ans	× 1. 6 cm
	× 2. 10 cm
	× 3. 12 cm
	✓ 4. 8 cm
Q.15	Which of the following formulas is used to calculate the volume by volume percentage of a solution?
Ans	
	$\frac{1}{\text{Volume of solution}} \times 100$
	Mass of solute
	$\frac{\times}{\text{Mass of solute}} \times 100$ Mass of solution
	$\sqrt[3]{3} = \frac{\text{Volume of solute}}{\text{Volume of solution}} \times 100$
	\times 4. = $\frac{\text{Volume of solution}}{\text{Volume of solution}} \times 100$
	Mass of solute
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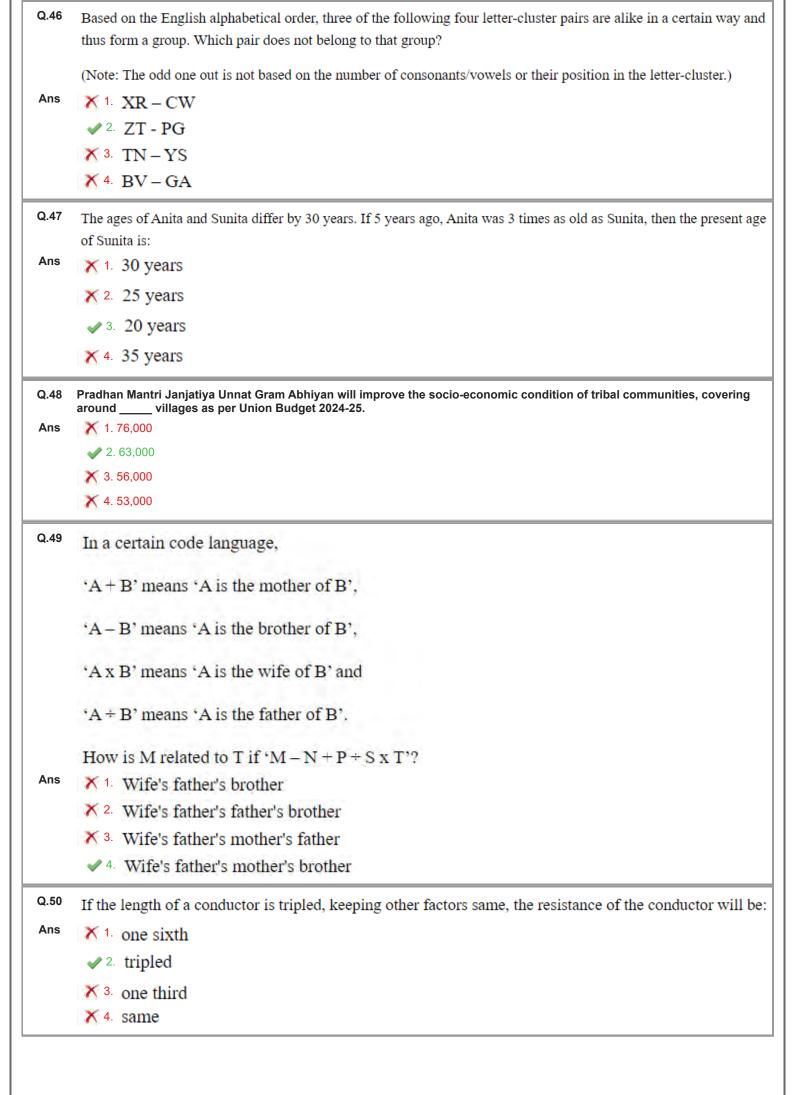


Q.22 Seven people, A, B, C, D, E, F and G are sitting in a row, facing north. E sits third from the left end. Only three people sit between G and E. B is the immediate neighbour of C and F. D sits second to the left of C. How many people sit between A and F? Ans X 1. One ✓ 2. Four X 3. Three X 4. Two Q.23 Which of the following carbon compounds is classified as an alcohol? Ans 1. Propanal ✓ 2. Propanol 3. Propanoic 🟋 4. Propanone Q.24 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to (Left) 9 # 1 * £ 2 & % 4 @ 6 8 \$ 7 & 3 Ω 5 (Right) How many such numbers are there, each of which is immediately preceded by a number and also immediately followed by a symbol? Ans X 1. Two X 2. More than two X 3. Zero √ 4. One Q.25 What happens when acid is mixed with water? Ans ✓ 1. It will increase the concentration of hydronium ions per unit volume. 2 It will increase the concentration of hydroxyl ions per unit volume. 73. There will be no effect on the concentration of ions. 4. It will decrease the concentration of hydronium ions per unit volume. Q.26 FKUZ is related to CORD in a certain way based on the English alphabetical order. In the same way, QJKH is related to NNHL. To which of the following options is JIBP related, following the same logic? Ans X 1. HOZS 2. HMZU X 4. FNAT Q.27 What repo rate was declared by the Reserve Bank of India's Monetary Policy Committee (MPC) on 9th October 2024? Ans X 1. 6.25% **X** 2. 6.10% **X** 3. 6.75% **4**. 6.50%



Q.34	The value of $(0.04)^{-1.5}$ is:
Ans	X 1. 25
	× 2. 250
	× 3. 625
	✓ 4. 125
Q.35	Which of the following conditions is required to have the value of displacement of an object zero?
Ans	✓ 1. When the initial and final position of the object is the same.
	When distance travelled is equal to the displacement of the object.
	X 3. When distance travelled is less than the displacement of the object.
	★ 4. When distance travelled is greater than the displacement of the object.
Q.36	In 2024, which program organised youth exchange visits across states, focusing on the '5 Ps', namely Paryatan (Tourism),
Ans	Parampara (Traditions), Pragati (Development), Paraspar Sampark (People-to-people connect) and Prodyogiki (Technology)? 1. Bharat Parv
Alls	✓ 2. Yuva Sangam
	X 3. India Unites
	X 4. National Youth Exchange
Q.37	On which date did India and the USA sign their first-ever Cultural Property Agreement (CPA)?
Ans	X 1. 20 June 2024
	X 2. 10 August 2024
	X 4. 15 May 2024
Q.38	The sum of five consecutive even numbers is 3720. The sum of the third largest and the largest even numbers among
A.n.o.	them is:
Ans	X 1. 1392
	2. 1488
	★ 4. 1388
Q.39	When 0.292929 is converted into a fraction, then the result is:
Ans	X 1. $\frac{1}{5}$
	_
	√ 2. $\frac{29}{99}$
	$\frac{2}{9}$ 3. $\frac{2}{9}$
	20
	$\frac{29}{100}$
	100

Q.40 The volume of a cylinder is 5500 m³. Find its diameter of base if the height of the cylinder is 70 m. [Use $\pi = \frac{22}{7}$] Ans X 1. 12 m X 2. 8 m √ 3. 10 m X 4. 5 m Q.41 Which of the following options should come in place of the question mark (?) in the given series? 75 65 56 48 41 ? Ans X 1. 34 X 2. 31 **√** 3. **35** X 4. 33 Q.42 The shopkeeper offers two successive discounts on a machine that is marked at ₹18,000 so that its selling price gets reduced to ₹12,960. If 10% and x % are the respective discounts, the value of x is: Ans **1.** 20 X 2. 10 X 3. 15 X 4. 12 Q.43 Subtract the sum of 2x - 3y + 7z and 4z - 5x from 13x - z. Ans x = 3x + 3y - 3z \times 2. x + 12y - 12z \times 3. 4x + 7y \checkmark 4. 16x + 3y - 12zQ.44 If a:b=3:4 and b:c=2:3, then a:b:c=?Ans X 1. 4:2:3 X 2. 4:3:6 √ 3. 3:4:6 X 4. 3:4:3 When did the Department for Promotion of Industry and Internal Trade (DPIIT) organise the Startup India Innovation Week Q.45 X 1. 12 January 2024 to 20 January 2024 Ans X 2. 11 January 2024 to 19 January 2024 X 3. 13 January 2024 to 21 January 2024 4. 10 January 2024 to 18 January 2024



Q.51 Venu starts from Point Y and drives 7 km towards south. He then takes a left turn, drives 15 km, turns right and drives 38 km. He then takes a left turn and drives 13 km. He takes a left turn, drives 31 km. He then turns left, drives 28km, turns left and drives 13 km to stop at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90 degrees turns only unless specified)

Ans

- X 1 24 km towards south
- 28 km towards east
- X 3. 20 km towards south
- Q.52 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.

Statements:

Some ribbons are balloons.

Some balloons are eagles.

Conclusions:

- (I) All eagles are ribbons.
- (II) No ribbons are eagles.

Ans

- ✓ 1. Neither conclusion (I) nor (II) follows
- 2. Both conclusions (I) and (II) follow
- X 3. Only conclusion (I) follows
- X 4. Only conclusion (II) follows
- Q.53 Study the following table and answer the question.

The table depicts the number of cars and bikes manufactured by a company in the year 2012 and 2013.

Years	Number of cars (In Thousand)	Number of bikes (In Thousand)
2012	45	50
2013	40	60

How many cars (In Thousand) were manufactured in the year 2012 and 2013 together?

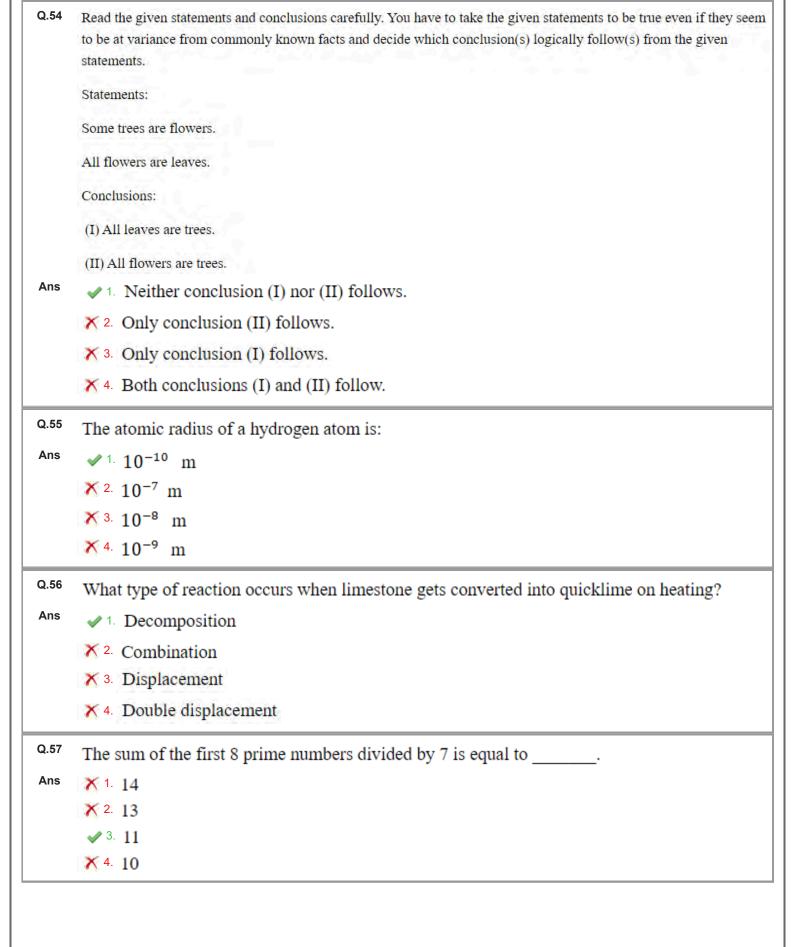
Ans

X 1. 75

√ 2. **85**

X 3. 105

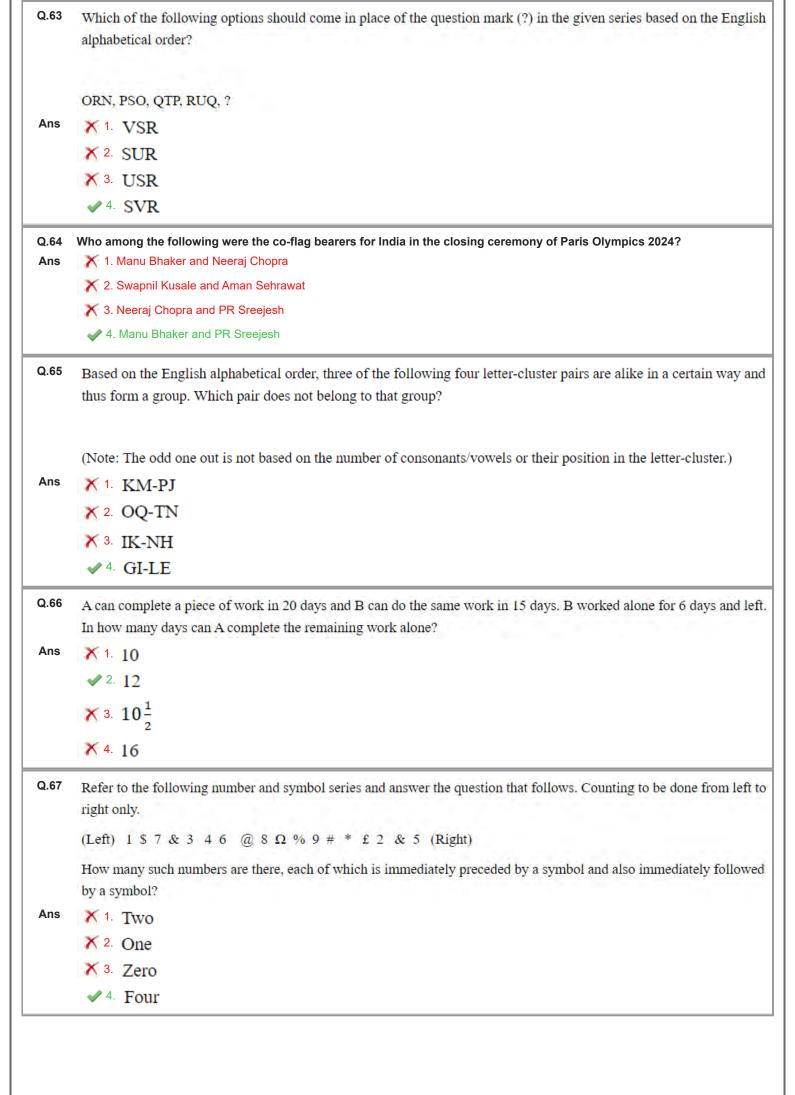
X 4. 95



Q.58 In the following number pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X:58::430:Y Ans \times 1. X = 355, Y = 95 \checkmark 2. X = 295, Y = 85 \times 3. X = 310, Y = 70 \times 4. X = 260, Y = 90 Q.59 According to the Economic Survey 2023-24, India's cumulative installed solar power capacity reached _____ on 30 April 2024, after adding 15.03 GW in 2023-24. X 1. 89.64 GW Ans X 2. 86.64 GW X 3. 80.64 GW 4. 82.64 GW Q.60 Rama walks to her office 5 km away from home. In the morning, she covers the distance in 1 hour whereas, while returning home in the evening, she takes 15 more minutes to cover the same distance. Find her average speed (in km/h) during the two-way journey. Ans 🗶 1. 3 🚡 $\sqrt{2}$ 2. $4\frac{4}{9}$ χ 3. $3\frac{1}{9}$ \times 4. $4\frac{2}{3}$ Q.61 In a certain code language, 'MEANS' is coded as '75821', 'RANGE' is coded as '84592', and 'PRIME' is coded as '64237'. What is the code for 'G' in the given code language? Ans X 1. 5 X 2. 4 √ 3. 9 X 4. 8 Q.62 For current carrying circular loop, the field strength is: Ans ✓ 1. maximum at the centre 2. maximum at the periphery X 3. undetermined at the periphery

Material A. Minimum at the centre

A. Mi



Q.68 A, B, C, D, E and F are sitting around a circular table facing the centre. D sits to the immediate left of F. B is the immediate neighbour of C and F. A is the immediate neighbour of E and C. What is the position of D with respect to E? Ans 1 Third to the left 2. Third to the right 3. Second to the left 4. Immediate right Q.69 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Left) * 9 # 1 £ 2 4 & 3 Ω 6 @ 8 \$ 7 5 & % (Right) How many such symbols are there, each of which is immediately preceded by a symbol and also immediately followed by a number? Ans X 1. One X 2. Two More than two 4. Zero Q.70 In the food vacuole of which organism, complex substances are broken down into simpler ones which then diffuse into the cytoplasm? Ans √ 1. Amoeba X 2. Lichen 3. Plasmodium X 4. Spirogyra Q.71 In a certain code language, 'PING' is coded as '7953' and 'NOSE' is coded as '4638'. What is the code for 'N' in the given code language? Ans X 1. 5 X 2. 6 **√** 3. **3** X 4. 4 Q.72 In which organism does cell division or fission lead to the creation of new individuals? Ans X 1. Plants Mammals 3. Unicellular organisms 4. Reptiles Q.73 Which of following compounds is used as an ingredient in antacids? Ans Nitric acid Sodium chloride X 3. Copper sulphate ✓ 4. Sodium hydrogen 6 prefegram "HaryanaJobs.in"

Q.74	The value of K , satisfying the equation $\frac{0.009}{K} = 0.01$ is:	
Ans	№ 1. 0.0009	
	× 2. 0.09	
	✓ 3. 0.9	
	X 4. 9	
Q.75	Which of the following is the specialised cell that conducts information via electrical impulses from one part of the body to another?	
Ans	× 1. Nucleus	
	✓ 2. Neuron	
	X 3. Dendrite	
	× 4. Axon	

2024/12/02-23:03:36



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	28/11/2024
Test Time	12:30 PM - 1:30 PM
Subject	ALP Stage 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 The length of the base of a triangle is equal to the perimeter of a square whose diagonal is $7\sqrt{2}$ cm and the corresponding height of the triangle is equal to the length of a side of the square whose area is 169 sq cm. The area (in sq cm) of the triangle is:

Ans

X 1. 152

√ 2. 182

X 3. 156

X 4. 130

Q.2 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?

LNR, MOS, NPT, OQU, ?

Ans

X 1. PVR

2. VRP

4. VPR

Q.3 The Public Examinations (Prevention of Unfair Means) Act, 2024 that aims to prevent unfair means in public examinations and common entrance tests held across the country, came into effect in which month of 2024?

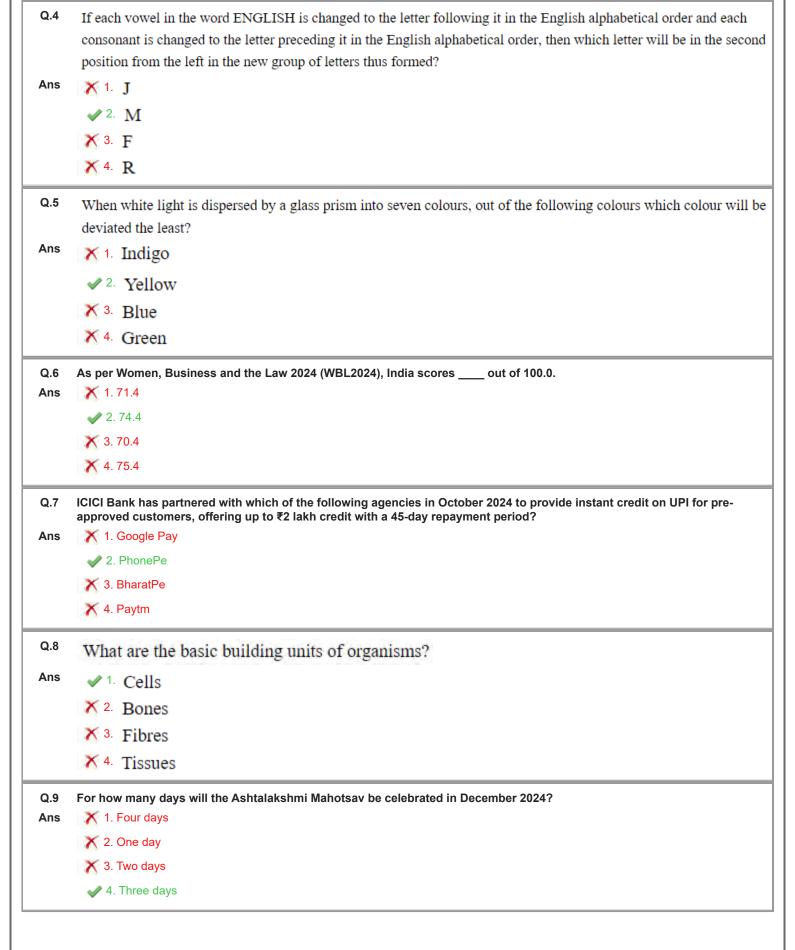
Ans

X 1. August

2. June

X 3. May

X 4. July



Only two people sit to the left of F. F. sits second to the right of G. E sits second to the right of F. C sits fourth to the right of B. D sits second to the left of C. A sits an immediate right of C. How many people sit between B and G? X 1. Three X 2. One X 3. Two V 4. None Q.11 When an object falls under gravity, the object experiences: Ans V 1. an acceleration X 2. a deceleration X 3. a force only when it hits the surface of the earth X 4. no external force Q.12 When an iron nail is dipped into a copper sulphate solution, which substance gets displaced? Ans V 1. Copper X 2. Copper X 2. Copper Sulphate X 3. Sulphate X 4. Iron Q.13 What is the path of an object when it is in uniform motion? Ans X 1. A circle V 2. A straight line X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: X 1. Real, inverted and emlarged X 2. Real, inverted and diminished V 3. Virtual, erect and diminished V 4. Virtual, erect and diminished V 4. Virtual, erect and diminished V 4. Virtual, erect and diminished V 5. ZDQ IUZ : LRC Ans X 1. PXH : LCD V 2. CAT : FXW X 3. URL : STI	Q.10	Seven people, A, B, C, D, E, F and G are sitting in a straight line, facing north.
Ans		그 사람이 사용하다 나는 경기 가장이 있다면 하는 것이 되었다. 이 경기 아니는 사람들은 사람들이 하는 것이 그렇게 하는 것이 되었다. 이렇게 하는 것이 하나 이 이 이 이 없는데 나를 다 되었다.
X 2 One X 3 Two X 4 None Q.11 When an object falls under gravity, the object experiences: Ans X 1 an acceleration X 2 a deceleration X 3 a force only when it hits the surface of the earth X 4 no external force Q.12 When an iron nail is dipped into a copper sulphate solution, which substance gets displaced? Ans X 1 Copper X 2 Copper Sulphate X 3 Sulphate X 4 Iron Q.13 What is the path of an object when it is in uniform motion? Ans X 1 A circle X 2 A straight line X 3 A parabola X 4 An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1 Real, inverted and emlarged X 2 Real, inverted and diminished X 3 Virtual, erect and diminished X 4 Virtual, erect and emlarged Q.16 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. WON: ZDQ IUZ: LRC Ans X 1 PXH: LCD X 2 CAT: FXW		How many people sit between B and G?
X 3. Two 4 4. None Q.11 When an object falls under gravity, the object experiences: Ans 4 1. an acceleration X 2 a deceleration X 3. a force only when it hits the surface of the earth X 4. no external force Q.12 When an iron nail is dipped into a copper sulphate solution, which substance gets displaced? Ans 4 1. Copper X 2. Copper Sulphate X 3. Sulphate X 4. Iron Q.13 What is the path of an object when it is in uniform motion? Ans 4 1. A circle 4 2 A straight line X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished 4 3. Virtual, erect and diminished 4 4. Virtual, erect and enlarged Q.15 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. WCN: ZDQ IUZ: LRC Ans X 1. PXH: LCD 4 2. CAT: FXW	Ans	X 1. Three
Q.11 When an object falls under gravity, the object experiences: Ans		× 2. One
C.11 When an object falls under gravity, the object experiences: Ans		
Ans Ans		√ 4. None
X 2 a deceleration X 3 a force only when it hits the surface of the earth X 4 no external force Q.12 When an iron nail is dipped into a copper sulphate solution, which substance gets displaced? Ans	Q.11	When an object falls under gravity, the object experiences:
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X 4 no external force Q.12 When an iron nail is dipped into a copper sulphate solution, which substance gets displaced? Ans ✓ 1. Copper X 2. Copper Sulphate X 3. Sulphate X 4. Iron Q.13 What is the path of an object when it is in uniform motion? Ans X 1. A circle ✓ 2. A straight line X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished ✓ 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD ✓ 2. CAT: FXW		× 2. a deceleration
C.12 When an iron nail is dipped into a copper sulphate solution, which substance gets displaced? Ans		X 3. a force only when it hits the surface of the earth
Ans Copper X Copper X Copper X Copper Sulphate X Sulphate X Iron		× 4. no external force
X 2. Copper Sulphate X 3. Sulphate X 4. Iron Q.13 What is the path of an object when it is in uniform motion? Ans X 1. A circle 2 2. A straight line X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished 3 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD 2 2. CAT: FXW	Q.12	When an iron nail is dipped into a copper sulphate solution, which substance gets displaced?
X 3. Sulphate X 4. Iron Q.13 What is the path of an object when it is in uniform motion? Ans X 1. A circle 2. A straight line X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished 2 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD 2 2. CAT: FXW	Ans	✓ 1. Copper
Q.13 What is the path of an object when it is in uniform motion? Ans X 1. A circle 2. A straight line X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished X 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD 2. CAT: FXW		× 2. Copper Sulphate
Q.13 What is the path of an object when it is in uniform motion? Ans X 1. A circle 2. A straight line X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished X 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD 2. CAT: FXW		X 3. Sulphate
Ans X 1. A circle 2. A straight line 3. A parabola 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD 2. CAT: FXW		-
Ans X 1. A circle 2. A straight line 3. A parabola 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged 2. Real, inverted and diminished 3. Virtual, erect and diminished 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD 2. CAT: FXW	Q.13	What is the nath of an object when it is in uniform motion?
 Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished ✓ 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD ✓ 2. CAT: FXW 	Ans	-
 X 3. A parabola X 4. An ellipse Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD V 2. CAT: FXW 		
Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: Ans X 1. Real, inverted and enlarged X 2. Real, inverted and diminished X 3. Virtual, erect and diminished V 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD V 2. CAT: FXW		
Q.14 An object is placed between the focus and the pole of a concave mirror, the image formed will be: **Ans** **X* 1. Real, inverted and enlarged **X* 2. Real, inverted and diminished **X* 3. Virtual, erect and diminished **X* 4. Virtual, erect and enlarged **Q.15** **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. **WGN: ZDQ** **IUZ: LRC** **Ans** **X* 1. PXH: LCD** **Z* CAT: FXW*		
Ans 1. Real, inverted and enlarged 2. Real, inverted and diminished 3. Virtual, erect and diminished 4. Virtual, erect and enlarged C.15 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. WGN: ZDQ IUZ: LRC Ans 1. PXH: LCD 2. CAT: FXW		An ellipse
 X 2. Real, inverted and diminished X 3. Virtual, erect and diminished ✓ 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD ✓ 2. CAT: FXW 	Q.14	An object is placed between the focus and the pole of a concave mirror, the image formed will be:
 X 3. Virtual, erect and diminished ✓ 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans X 1. PXH: LCD ✓ 2. CAT: FXW 	Ans	X 1. Real, inverted and enlarged
 ✓ 4. Virtual, erect and enlarged Q.15 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. WGN: ZDQ IUZ: LRC Ans ✓ 1. PXH: LCD ✓ 2. CAT: FXW 		X 2. Real, inverted and diminished
Q.15 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. WGN: ZDQ IUZ: LRC Ans 1. PXH: LCD ✓ 2. CAT: FXW		X 3. Virtual, erect and diminished
the same pattern. WGN: ZDQ IUZ: LRC Ans 1. PXH: LCD 2. CAT: FXW		✓ 4. Virtual, erect and enlarged
WGN: ZDQ IUZ: LRC Ans 1. PXH: LCD 2. CAT: FXW	Q.15	Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow
IUZ: LRC Ans ↑ 1. PXH: LCD ↑ 2. CAT: FXW		the same pattern.
Ans		WGN: ZDQ
✓ 2. CAT: FXW	A	
	Ans	
M → UKL: 511		
X 4. DMV : HHZ		
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Q.16	3 pencils and 5 pens together cost ₹101, whereas 5 pencils and 3 pens together cost ₹91. The cost of 2 pencils and 2
Ans	pens together is:
AllS	X 1. ₹45
	X 2. ₹36
	✓ 3. ₹48
	X 4. ₹32
Q.17	In a country, 55% of the population are females. 80% of the male population is literate. What percentage of females are
	literate if the total literacy rate is 58%?
Ans	X 1. 55%
	✓ 2. 40%
	※ 3. 45%
	★ 4. 20%
Q.18	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem
	to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given
	statements.
	Statements:
	All kites are monkeys.
	All monkeys are ants
	Conclusions:
	(I) Some ants are kites.
	(II) Some monkeys are not kites.
Ans	1 Neither conclusion (I) nor (II) follows.
	X 2. Only conclusion (II) follows.
	3. Only conclusion (I) follows.
	X 4. Both conclusions (I) and (II) follow.
Q.19	The power of a body can be measured in both Kilowatt (KW) as well as Watt(W). Then the value of 1 KW in terms of Watt is:
Ans	X 1. 10
	✓ 2. 1000
	X 3. 10000
	X 4. 100

Q.20	Study the following table and answer the question.
------	--

The table shows the number of people who visited hill stations A and B in the years from 2011 to 2013.

Year	A	В
2011	777	566
2012	675	289
2013	470	978

What is the absolute difference between the number of people who visited hill station A in the year 2011 to the number of people who visited hill station B in the same year?

Ans

√ 1. 211

× 2. 102

X 3. 112

X 4. 312

Q.21 Who became the first woman fighter pilot to join the elite 18 'Flying Bullets' squadron in 2024?

Ans

X 1. Bhawana Kanth

2. Mohana Singh

X 3. Avani Chaturvedi

X 4. Shivangi Singh

Q.22 Anthony starts from Point A and drives 9 km towards West. He takes a left turn, drives 3 km, turns left again and drives 13 km. He then takes a right turn and drives 2 km. He takes a final right turn, drives 4 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

√ 1. 5 km towards the North

X 2. 13 km towards the West

X 3. 9 km towards the North

X 4. 7 km towards the South

Q.23 How many medals were secured by India in Paris Olympics 2024?

Ans

X 1. Four

X 2. Five

X 3. Three

√ 4. Six

Q.24 In colloids, which of the following is a correct example of foam?

Ans

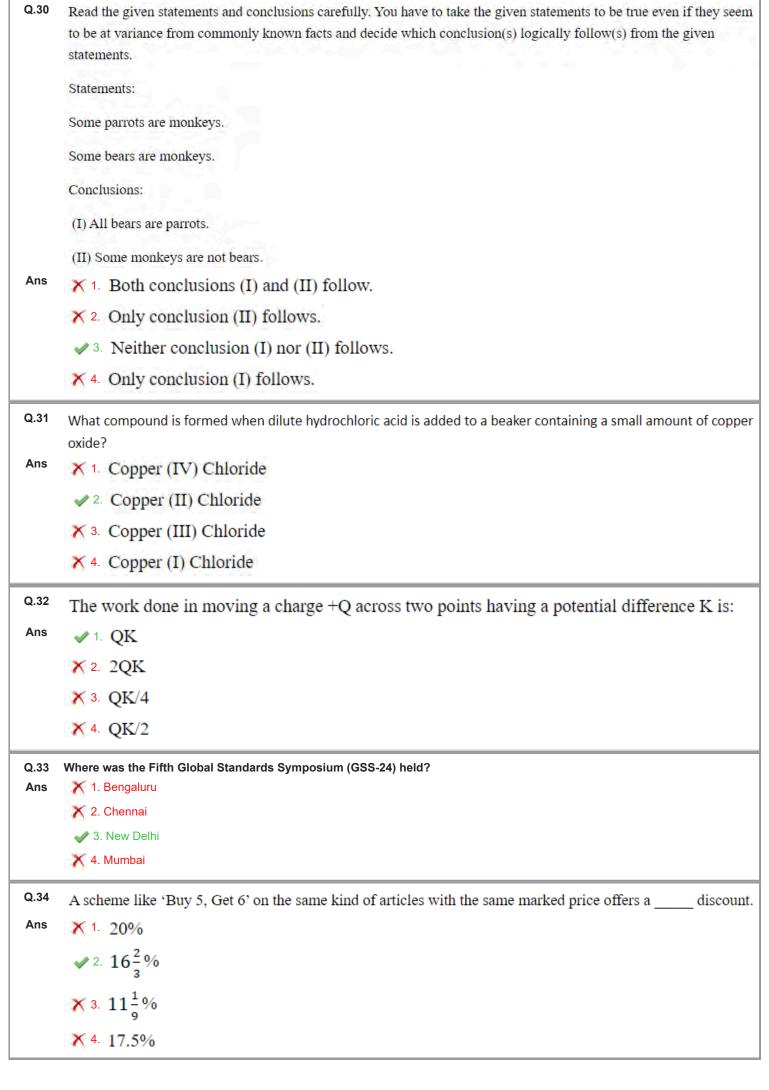
✓ ¹ Pumice

X 2. Mist

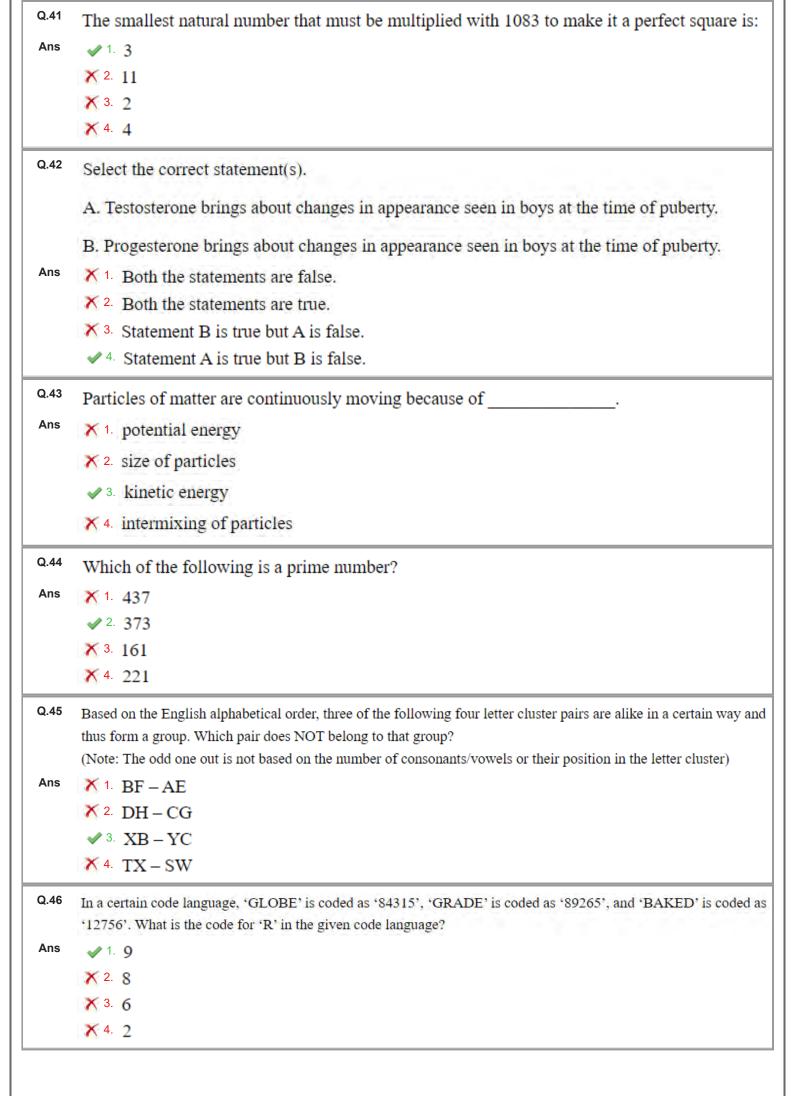
X 3. Jelly

X 4. Fog

Q.25	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	UZW, TYV, SXU, RWT, ?
Ans	₹ 1. SQV
	× 2. QSV
	× 3. SVQ
Q.26	What is the position of the apical meristematic tissue in a plant body?
Ans	✓ 1. At the growing tips of the stems and roots
	× 2. Near to the root region only
	★ 3. On the lateral side of the stem and roots
	X 4. Near the node
Q.27	Find the simple interest on ₹3,000 as a sum borrowed at 4% per year rate of interest for 5 years.
Ans	X 1. ₹400
	× 2. ₹800
	× 3. ₹300
	✓ 4. ₹600
Q.28	The present ages of three persons are in ratio 4:5:6. Eight years ago, the sum of their ages was 51. Find the present age of the eldest person.
Ans	1. 28 years
	× 3. 45 years
	× 4. 36 years
Q.29	Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.
	(Left) 9 # 1 2 @ 8 \$ 7 & 3 Ω & % 4 6 * £ 5 (Right)
	How many such symbols are there, each of which is immediately preceded by an even number but not immediately followed by an odd number?
Ans	× 1. Zero
	✓ 2. Two
	X 3. One
	× 4. More than two



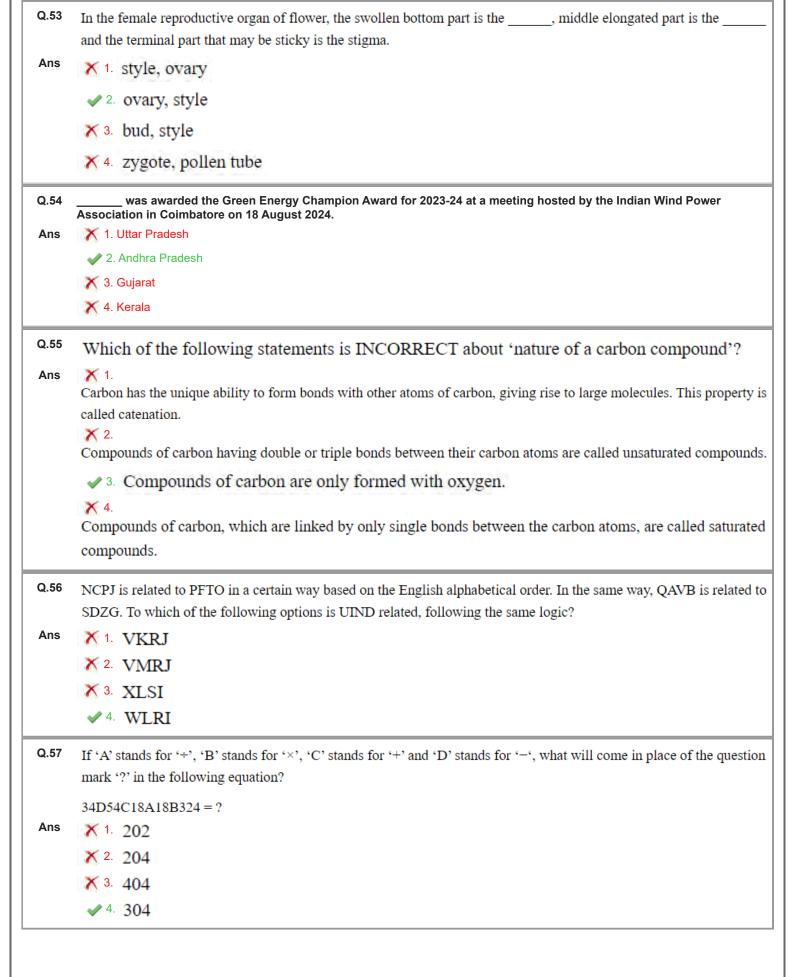
Q.35	A vendor sold 10 toffees for a rupee, thereby gaining 20%. How many did he buy for a rupee?
Ans	X 1. 6
	✓ 2. 12
	※ 3. 10
	₹ 4. 8
Q.36	Which of the following options gives the correct expression for y, when $\frac{\cos^2 A}{1-\sin A} = y$, and $\sin A \neq 1$?
Ans	X 1. cosecA
	\times 2. $secA + tanA$
	X 4. cosA + 1
Q.37	Metabolic activities that generate nitrogenous waste material in human being are removed by:
Ans	★ 1. the vascular system
	X 3. the circulatory system → 1. The circulatory system
	★ 4. the respiratory system
Q.38	In this question, two statements, I and II, have been given. These statements maybe independent causes, or effects of independent causes or a common cause. One of the statements maybe the effect of the other statement. Read both the statements and select the correct answer.
	I. Most teachers of school X have left the school and joined school Y.
	II. The football team of school X has won the champion's trophy in the inter-city football championship.
Ans	✗ 1. Both I and II are independent causes.
	✓ 2. Both I and II are effects of independent causes.
	X 3. II is the cause and I is its possible effect.
	X 4. I is the cause and II is its possible effect.
Q.39	
4.00	Which of the following options should come in place of the question mark (?) in the given series?
A 110	7 13 25 ? 97 193
Ans	★ 1. 39✓ 2. 49
	▼ 2. 49 ▼ 3. 32
	X 4. 35
Q.40	Allocation of the state of the
α	All 36 people are standing in a row, facing north. Aman is 11 th from the left end, while Pratha is 12 th from the right end. How many people are there between Aman and Pratha?
Ans	X 1. 18
	× 2. 15
	※ 3. 10
	✓ 4. 13
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thus form a group. Which 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 ✓ 1. AK – VH ※ 2. YI − TD X 3. SC − NX ★ 4. LV – GQ Q.48 I walk at a speed of 10 km/h and reach the destination in 2 hrs, exactly on time. If I increase my speed by 5 km/h, how early would I reach my destination? Ans 7. 50 min × 2. 20 min X 4. 30 min Q.49 Which of the following is obtained by subtracting $x^2 - y^2$ from $y^2 - x^2$? Ans $\sqrt{1.-2(x^2-y^2)}$ $\times 2. -2(x^2 + y^2)$ \times 3. 2(x² + y²) \times 4. 2(x² - y²) Q.50 If 48: x: x: 75, and x > 0, then what is the value of x? Ans X 1. 51 X 2. 57 X 3. 63 **4.** 60 Q.51 Seven people, A, B, C, D, E, F and G are sitting in a straight line, facing north. Only two people sit to the left of D. F sits second to the left of D. G sits second to the right of E. E sits second to the right of D. A sits second to the left of B. A is not an immediate neighbour of F. Who sits at the extreme right end of the line? Ans X 1. C X 2. B √ 3. G X 4. A Q.52 Identify the simplest compound formed by carbon that is used widely as fuel. Ans 🔀 1. Methyl 2. Methane X 3. Ethane 4. Propane Join Telegram "HaryanaJobs.in"

Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and

Q.47



```
Q.58
      In a certain code language,
      'A # B' means 'A is the mother of B',
      'A - B' means 'A is the brother of B',
       'AxB' means 'A is the wife of B'
      and 'A = B' means 'A is the father of B'.
      How is N related to S if 'N - P # S x T'?
Ans
     X 1. Father's mother
      2. Father's brother
       3. Mother's brother

    Father's father's brother

Q.59
      Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to
      right only.
               # 1 * £ 5 8 $ 4 2 & % 67 & @ 3 Ω 9 (Right)
      (Left)
      How many such symbols are there, each of which is immediately preceded by a number and also immediately followed
      by a symbol?
Ans

✓ 1. More than two

       X 2. Zero
       X 3. Two
       X 4. One
Q.60
      If A means +, B means -, C means ×, D means ÷, then what will come in place of the question mark (?) in the following
      equation?
      91 D 13 B 4 A 3 C 2 = ?
Ans
     X 1. 8
       √ 2. 9
       X 3. 7
       X 4. 10
Q.61
     Which of the following teams was the winner of 2<sup>nd</sup> edition of Women's Premier League?
Ans

✓ 1. Royal Challengers Bangalore (Bengaluru)

       X 2. UP Warriorz
       X 3. Delhi Capitals
       X 4. Mumbai Indians
Q.62
      In a certain code language, 'CODE' is coded as '5739' and 'LEGS' is coded as '4256'. What is the code for 'E' in the
      given code language?
Ans
     X 1. 6
       2. 5
       X 3. 2
       X 4. 9
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solenoid, then it appears: Ans 1 denser at the ends 2 to increase from one end to another 3. uniform at all points 4 denser in the middle Q.64 The average of the prime numbers between 11 and 30, both excluded, is: Ans √ 1. 20.2 X 2. 20.3 X 3. 19.6 X 4. 19.5 Q.65 Identify the INCORRECT sentence(s). Some organisms use simple food material obtained from inorganic sources in the form of carbon dioxide and water. b. Other organisms utilise complex substances which are broken down into simpler ones before they can be used for the upkeep and growth of the body. c. Heterotrophic organisms include plants. Ans X 1. Only a ✓ 2. Only c X 3. Only b and c X 4. Only a and b Q.66 A and B can together complete a piece of work in 5 days. They worked together for 4 days and then B left. After another 2 days, A completed the remaining work. In how many days can A complete the entire work alone? Ans X 1. 20 **2**. 10 X 3. 15 X 4. 5 Q.67 In the following number pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X: 793 :: 679 : Y Ans \checkmark 1. X = 974, Y = 498 \times 2. X = 848, Y = 519 X = 886, Y = 443X 4. X = 923, Y = 481

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Consider a long current carrying solenoid. If Rahul plots the magnetic field lines inside this long current carrying

Q.63

Q.68	The average of 70 values is 40. If each value is multiplied by 20, what will be the changed average?
Ans	√ 1. 800
	× 2. 60
	× 3. 90
	× 4. 1400
Q.69	Which of the following numbers represent the atomic mass of calcium?
Ans	№ 1. 32 u
	× 2. 16 u
	× 4. 14 u
Q.70	If, in the quadrilateral JKLM, the measures of the angles J, K, L , and M are in the ratio $2:3:5:6$, then the quadrilateral is a:
Ans	X 1. Kite
	× 2. parallelogram
	× 4. square
Q.71	If the number 6484a6 is divisible by 8, then find the least value of a.
Ans	※ 1. 0
	× 2. 7
	X 3. 3
	✓ 4. 1
Q.72	22 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Using $\pi = \frac{22}{7}$, find the total surface area of a closed cylinder having a base radius of 70 m and height of 110 m.
Ans	Using $\pi = \frac{32}{7}$, find the total surface area of a closed cylinder having a base radius of 70 m and height of 110 m. $\sqrt{1.79,200 \text{ m}^2}$
Ans	,
Ans	✓ 1. 79,200 m ²
Ans	✓ 1. 79,200 m ² ✓ 2. 82,400 m ²
Q.73	✓ 1. 79,200 m ² ★ 2. 82,400 m ² ★ 3. 82,500 m ² ★ 4. 78,500 m ² What is the name of the project launched by the Ministry of Culture in 2024 to showcase India's artistic heritage through public art installations?
	✓ 1. 79,200 m ² ✓ 2. 82,400 m ² ✓ 3. 82,500 m ² ✓ 4. 78,500 m ² What is the name of the project launched by the Ministry of Culture in 2024 to showcase India's artistic heritage through public art installations? ✓ 1. Project BHARATI
Q.73	✓ 1. 79,200 m ² ★ 2. 82,400 m ² ★ 3. 82,500 m ² ★ 4. 78,500 m ² What is the name of the project launched by the Ministry of Culture in 2024 to showcase India's artistic heritage through public art installations?

Q.74 Two students appeared in an examination. One of them secured 9 marks more than the other and his marks were 56% of the sum of their marks. The marks obtained by them were:

Ans

X 1. 41 and 32

X 2. 43 and 34

X 4. 39 and 30

Q.75 In the following number pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::?

(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.)

X:826::723:Y

Ans

 \times 1. X = 593, Y = 941

 \checkmark 2. X = 542, Y = 1007

X = 604, Y = 1018

 \times 4. X = 518, Y = 984

2024/12/02-23:34:33



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	28/11/2024
Test Time	4:30 PM - 5:30 PM
Subject	ALP Stage 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 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.

Statements:

All chairs are tables.

No table is a bed.

Conclusions:

- (I) Some beds are chairs.
- (II) No bed is a table.

Ans

- ✓ 1. Only conclusion (II) follows.
- 2. Only conclusion (I) follows.
- X 3. Neither conclusion (I) nor (II) follows.
- X 4. Both conclusions (I) and (II) follow.

Q.2 Which tissue is responsible for movement in our body?

Ans

- X 1. Nervous tissue
- ✓ 2. Muscular tissue
- X 3. Epithelial tissue
- X 4. Connective tissue

Q.3 The 90th edition of the Ranji Trophy started in October 2024. Which of the following games is the Ranji Trophy related to?

Ans

- X 1. Hockey
- X 2. Baketball
- X 3. Badminton
- 4. Cricket

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Q.4	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	GJN, ILP, KNR, MPT, ?
Ans	✓ 1. ORV
	× 2. OVR
	X 3. RVO
	X 4. ROV
Q.5	The magnification produced by a spherical mirror is +0.75. The image is:
Ans	✓ 1. Virtual, erect and diminished
	× 2. Virtual, erect and enlarged
	X 3. Real, inverted and diminished
	X 4. Real, inverted and enlarged
Q.6	If each vowel in the word PAINTED is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order, then which letter will be in the third position from the left in the new group of letters thus formed?
Ans	X 1. F
	√ 2. J
	X 3. B
	★ 4. M
Q.7	In a certain code language,
	'A + B' means 'A is the mother of B',
	'A – B' means 'A is the brother of B',
	'AxB' means 'A is the wife of B' and
	'A ÷ B' means 'A is the father of B'.
	How is M related to T if 'M \div N x P – S + T'?
Ans	★ 1. Mother's brother's wife's brother
	✓ 2. Mother's brother's wife's father
	X 3. Mother's brother
	★ 4. Mother's father

Q.8	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.
	GTC : KWE
	WFK: AIM
Ans	1. LPA: KMV
	₹ 2. DGB : GLI
	X 3. JQP: MVW
	✓ 4. OZG : SCI
Q.9	A gardener increases the area of his rectangular garden by increasing its length by 40% and decreasing its breadth by
	20%. The area of the new garden is what percentage more than the area of the old garden?
Ans	₹ 1. 0 %
	√ 2. 12%
	3. 8%
	× 4. 20%
Q.10	Consider a parallel combination of 2 resistors with resistances 4 Ω and 6 Ω . The equivalent resistance of the circuit is:
Ans	× 1. 12 Ω
	× 2. 10 Ω
	× 3. 4.2 Ω
	√ 4. 2.4 Ω
Q.11	All liquids and gases are:
Ans	✓ 1. fluids
	× 2. semiconductors
	× 3. solids
	× 4. insulators
Q.12	What type of reaction takes place when a single reactant breaks down into simpler products?
Ans	✓ 1. Decomposition
	× 2. Double displacement
	X 3. Displacement
	X 4. Combination
Q.13	Identify the single cell organism.
Ans	✓ 1. Amoeba
	× 2. Seaweed
	X 3. Leech
	X 4. Liver fluke

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	In a certain code language, 'MOUSE' is coded as '74651', 'SPOKE' is coded as '52418', and 'PROUD' is coded as '26394'. What is the code for 'K' in the given code language?
Ans	× 1. 2
	✓ 2. 8
	X 3. 5
	X 4. 1
	1 · · · · · · · · · · · · · · · · · · ·
Q.15	Which of the following is NOT a characteristic of particles of matter?
Ans	✓ 1. Particles of matter are static.
	Particles of matter have space between them.
	7 3 Particles of matter are continuously moving.
	Y 4 Particles of matter attract each other.
Q.16	Which of the following represents the ratio by mass of hydrogen to oxygen atoms (H:O) in a water molecule?
Ans	X 1. 1:4
	× 2. 3:8
	√ 3. 1:8
	X 4. 1:2
Q.17	In September 2024, which High Court of India struck down the amended Information Technology Rules 2023, which empowered the Centre to set up a fact check unit (FCU) to identify fake, false and misleading information about the
Ans	government and its establishments on social media? 1. Delhi High Court
Allo	X 2. Patna High Court
	✓ 3. Bombay High Court
	X 4. Madras High Court
Q.18	Which of the following numbers is divisible by both 7 and 11?
Ans	★ 1. 3014
	- 5014
	X 2. 2534
	× 2. 2534 × 3. 2684
	× 3. 2684
0.40	※ 3. 2684 ✓ 4. 1771
Q.19	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the
	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M?
Q.19 Ans	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west
	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east
	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east X 3. East
	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east
	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east X 3. East
Ans	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east X 3. East X 4. West
Ans	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east X 3. East X 4. West Two successive discounts of 10% and 5% are equivalent to a single discount of
Ans	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east X 3. East X 4. West Two successive discounts of 10% and 5% are equivalent to a single discount of X 1. 15.5%
Ans	 X 3. 2684 ✓ 4. 1771 Town A is the north of Town B. Town C is to the east of Town B. Town D is to the west of Town C. Town A is to the north-east of Town D. Town M is to the north of Town C. What is the position of Town D with respect to Town M? ✓ 1. South-west X 2. North-east X 3. East X 4. West Two successive discounts of 10% and 5% are equivalent to a single discount of X 1. 15.5% X 2. 14%

Q.21	Study the following table and answer the given question.
------	--

The table shows the expenditure of a family over the given years.

Year	Expenditure in ₹				
	Food	Clothing	Education	Rent	Others
2011	2000	1200	3300	2000	4000
2012	2500	1100	3200	2300	4100

What is the total expenditure (in ₹) on food by the family for the year 2011 and 2012?

Ans

% 1. 5,000

X 2. 5,500

3. 4,500

X 4. 6,000

Q.22 If a regular polygon has 65 diagonals, then the number of sides this polygon has is:

Ans

X 1. 12

X 2. 14

√ 3. 13

X 4. 10

Q.23

Find the volume of a sphere whose diameter is 84 m. [Use $\pi = \frac{22}{7}$]

Ans

X 1. 323,434 m³

✓ 2. 310,464 m³

X 3. 338,808 m³

X 4. 313,418 m³

Q.24 Under the Prime Minister's Internship Scheme launched in October 2024, candidates will receive a monthly stipend of what amount for the full 12-month internship period?

Ans

X 1. ₹1,500

2. ₹5,000

X 3. ₹6,500

X 4. ₹2,000

Q.25 If ₹2,400 is to be distributed between A and B in the ratio of 7: 5, then the share of B is:

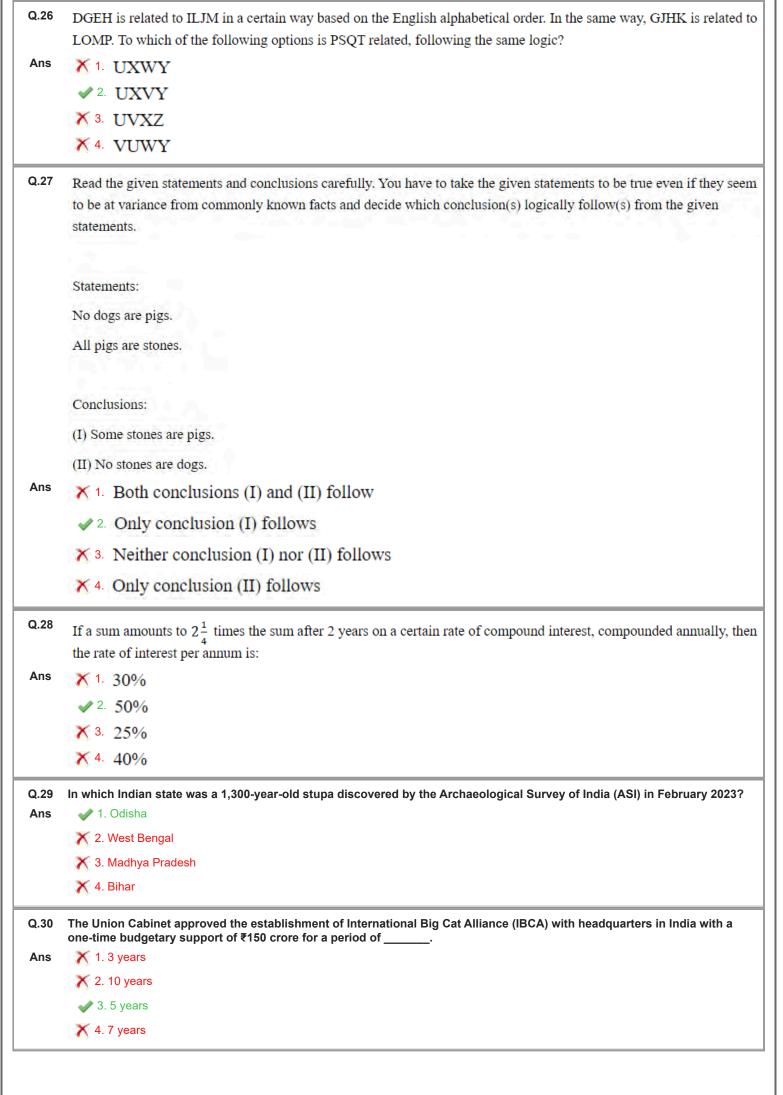
Ans

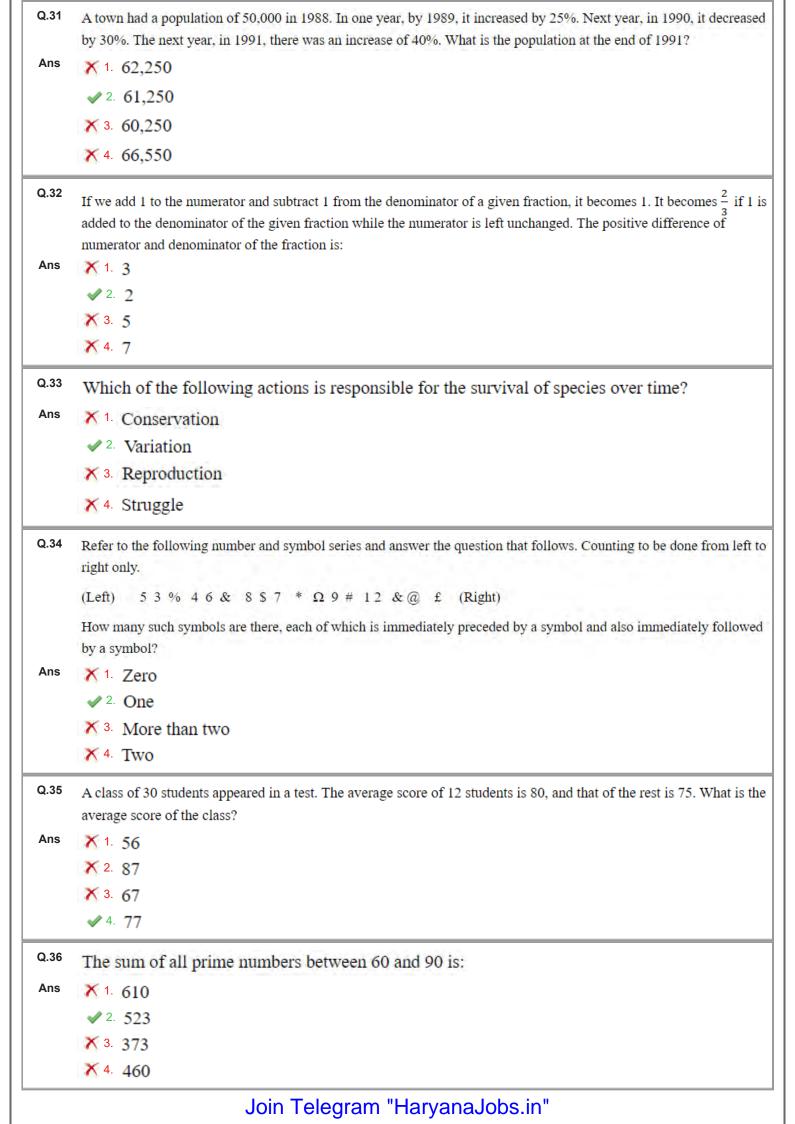
X 1. ₹1,300

X 2. ₹1,600

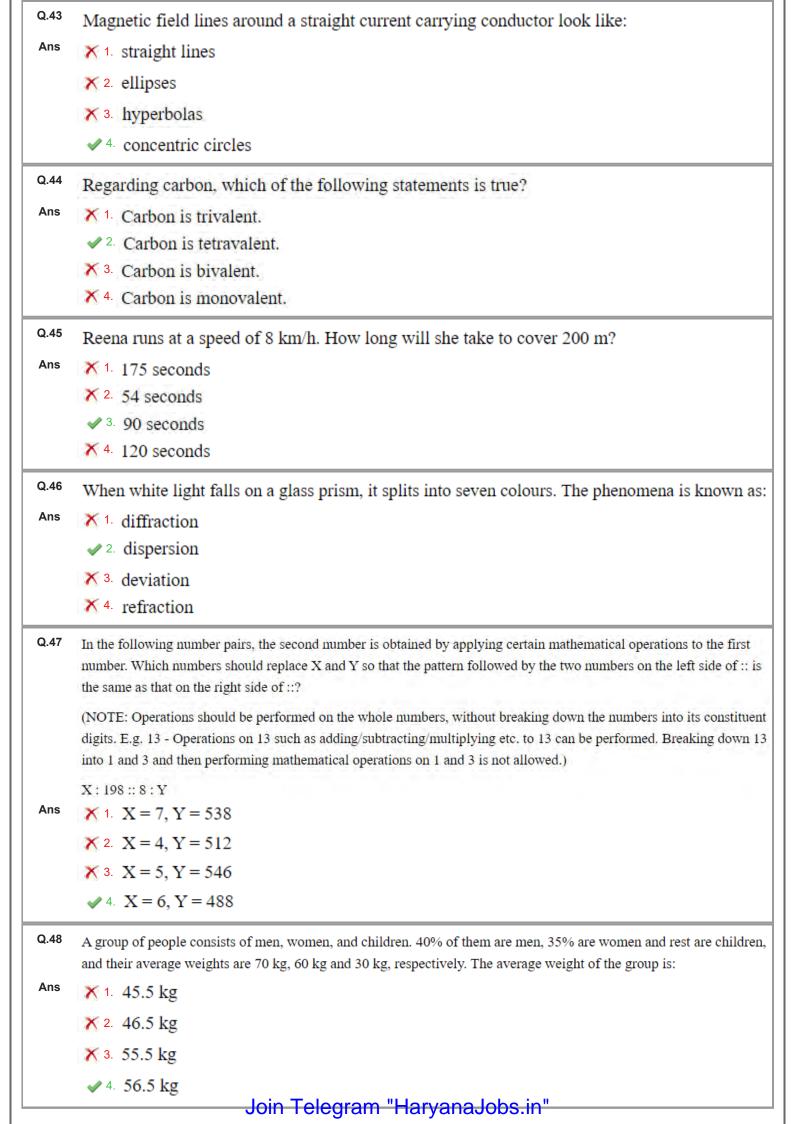
⊘ 3. ₹1,000

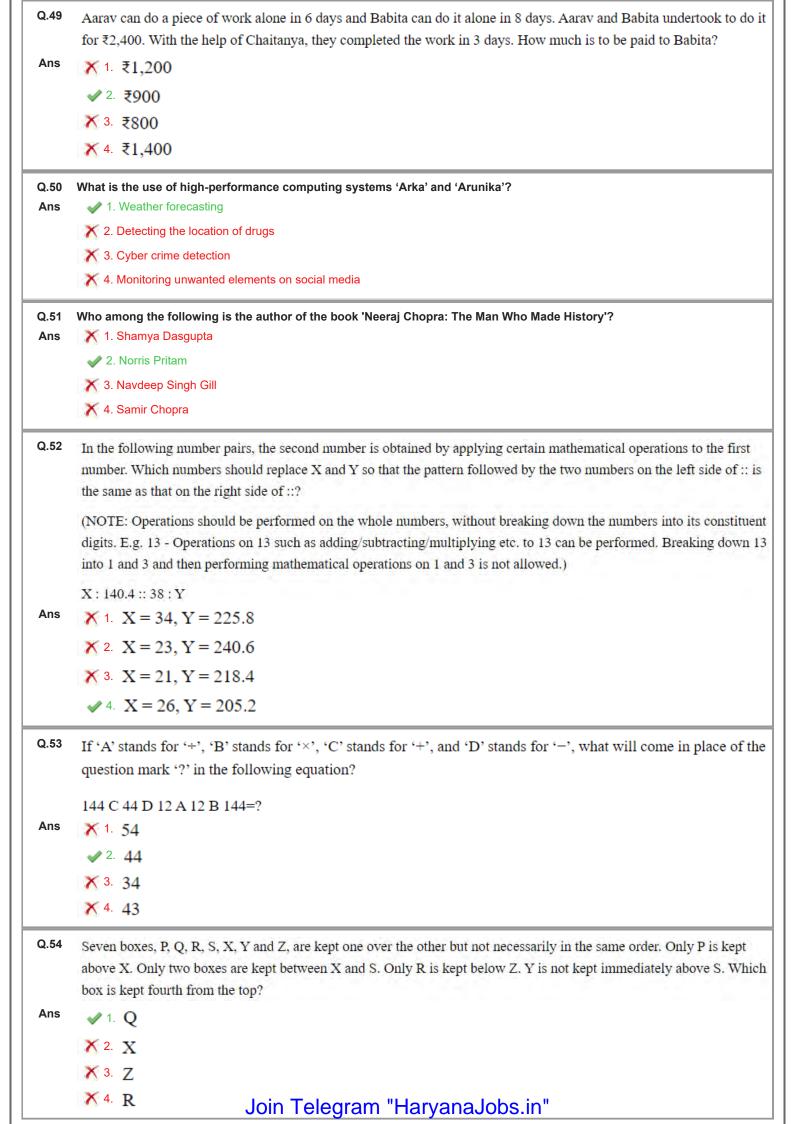
X 4. ₹1,900



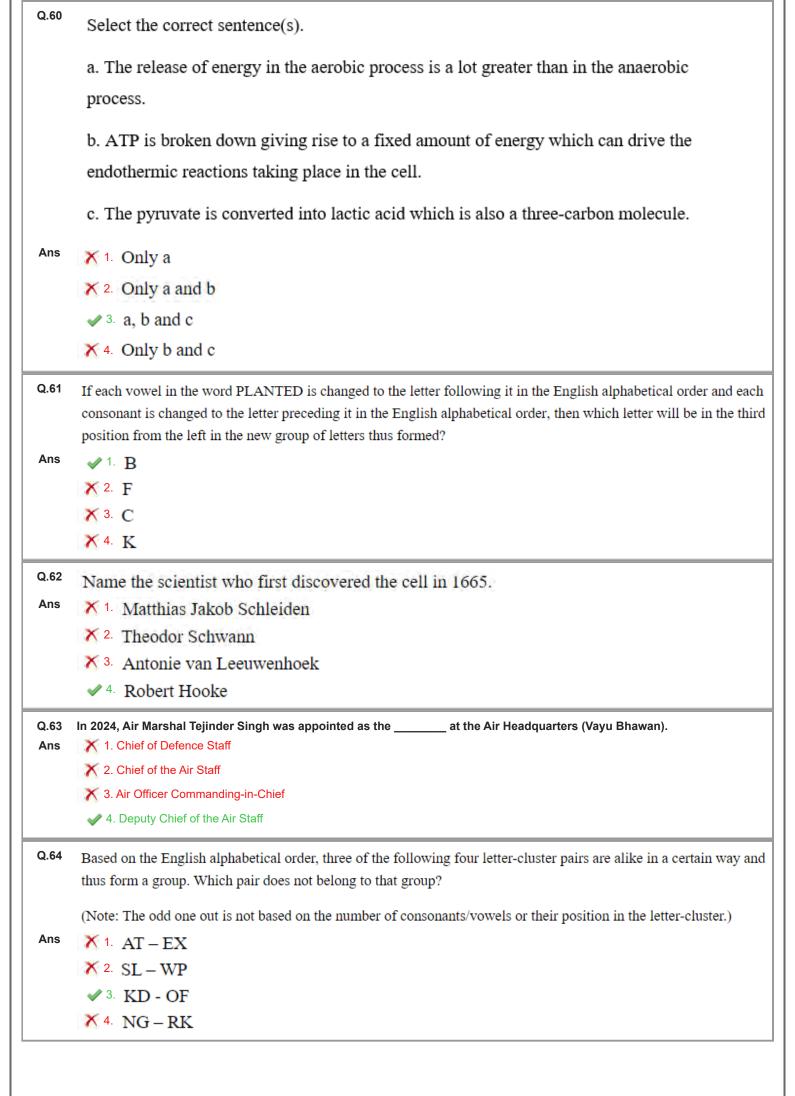


Q.37 A dishonest dealer professes to sell his goods at cost price, but uses a false weight and thus gains 25%. For 100 gm, he uses a weight of how many grams? Ans 🗶 1. 70 gm X 2. 85 gm 🗙 3. 75 gm Q.38 In a certain code language, 'HAIR' is coded as '9715' and 'AGED' is coded as '8612'. What is the code for 'A' in the given code language? Ans √ 1. 1 X 2. 2 X 3. 8 X 4. 7 Q.39 If A means +, B means -, C means ×, D means ÷, then what will come in place of the question mark (?) in the following equation? 14 B 5 C 5 A 30 D 2 = ?Ans X 1. 2 **√** 2. **4** X 3. 1 X 4. 3 Q.40 The value of $x^2 - 5$ at x = -1 is: **X** 1. −2 Ans **※** 2. −5 **X** 3. −1 **✓** 4. **−4** Q.41 From a point on the ground, the angles of elevation of the top and the bottom of a flag that is mounted on an 18 m high pole, are respectively 60° and 30°. The height of the flag is: Ans X 1. 52 m √ 2. 36 m X 3. 60 m X 4. 48 m Q.42 Which of the following options should come in place of the question mark (?) in the given series? 4591834? Ans √ 1. 59 X 2. 60 X 3. 54 **X** 4. 52

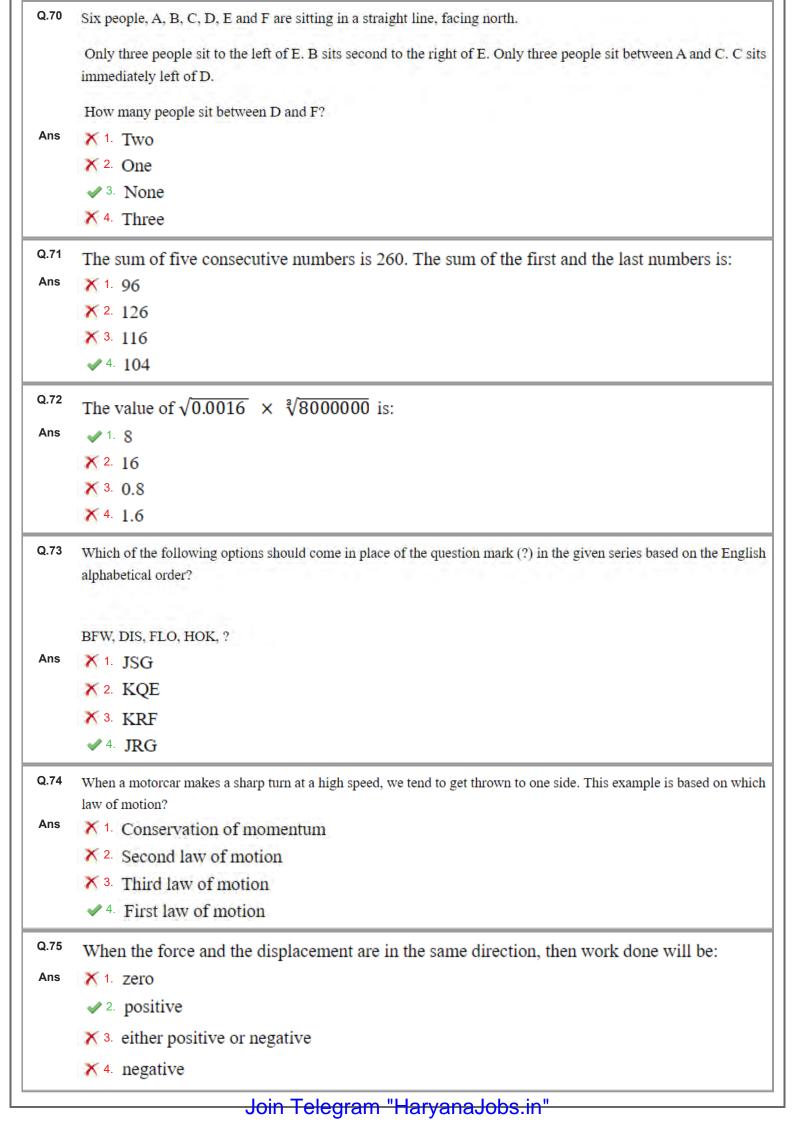




Q.55	Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair does not belong to that group?
	(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)
Ans	X 1. YQ − CU
	× 2. AS − EW
	※ 3. DV − HZ
Q.56	The square of the length of a space diagonal of a closed cube is 2175 cm ² . What is the total surface area (in cm ²) of the cube?
Ans	× 1. 4305
	✓ 2. 4350
	× 3. 4530
	× 4. 4272
Q.57	Milk is a mixture of:
Ans	★ 1. only protein
	× 2. only fat
	🔀 3. only water
Q.58 Ans	Where does India rank on the Corruption Perceptions Index as of October 2024? 1.89
	✓ 2. 93
	× 3. 96
	4. 86
Q.59	The concept of 'Prodyogiki' in the Yuva Sangam programme (2023) primarily focuses on which of the following?
Ans	1. Economic development
	2. Technology
	X 3. Cultural preservationX 4. Political awareness
	The state of the s



Q.65 Seven people, A, B, C, D, E, F and G are sitting in a row, facing north. Only five people sit between A and F. G sits third to the left of F. E is the immediate neighbour of B and F. C is not the immediate neighbour of G. How many people sit between C and E? Ans X 1. One X 2. Two 3. Three X 4. Four Q.66 What determines the chemical properties of a carbon compound? Ans ✓ 1 Functional group X 2. Molecular mass X 3. Number of Hydrogen atoms X 4. Length of the carbon chain Q.67 In this question, a statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the courses of action logically follow(s) for pursuing. Statement: Mr. X, a teacher of a high school, often beats his students. Courses of Action: I. Students should complain about this matter to the principal of the school. II. Students should quit the school and take admission in another school. Ans N 1. Both I and II follow. 2. Only II follows. X 3. Neither I nor II follows. 4. Only I follows. Q.68 What happens when pea plants showing two different characteristics (the tall/short trait and the round seed/wrinkled seed trait), rather than just one are bred with each other? Ans ✓ 1. The tall/short trait and the round seed/wrinkled seed trait are independently inherited. 2. They are all tall and have round seeds in F2 generation. Some F1 progeny are tall plants with round seeds, and some are short plants with wrinkled seeds. * The tall/short trait and the round seed/wrinkled seed trait are dependently inherited. Q.69 Which of the following statements is INCORRECT? Ans 1 Tooth decay starts when the pH of the mouth is lower than 5.5. X 2. When pH of rain water is less than 5.6, it is called acid rain. X 3. Living organisms can survive only in a narrow range of pH change. ✓ 4. When pH of rain water is more than 5.6, it is called acid rain. Join Telegram "HaryanaJobs.in"





रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	29/11/2024
Test Time	9:00 AM - 10:00 AM
Subject	ALP Stage 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 Simplify the following expression:

9991 × 10009

Ans

X 1. 9999999

X 2. 91999919

X 3. 9999919

4. 99999919

Q.2

In two triangles ABC and DEF, if $\overline{AB} = \overline{EF}$, $\overline{BC} = \overline{DF}$ and $\overline{CA} = \overline{DE}$, then:

Ans

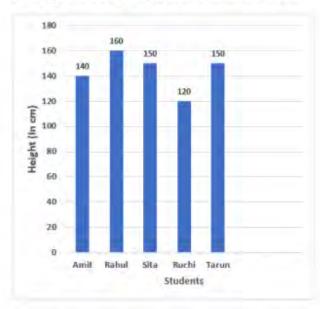
 \times 1. ΔABC \cong ΔDEF

 \times 2. $\triangle DEF \cong \triangle BCA$

X 3. △BAC \cong △FDE

Q.3 Study the following graph and answer the given question.

The graph shows the height of five students in a class.



What is the respective ratio between the height of Amit and height of Rahul?

Ans

- X 1. 12:13
- X 2. 5:6
- √ 3. 7:8
- X 4. 9:10

Q.4 Which two numbers should be interchanged to make the given equation correct?

$$75 \div 5 + 15 \times 4 - 17 \times 3 + (60 \div 6) \times 10 = 100$$

(Note: Interchange should be done of the entire number and not individual digits of a given number.)

Ans

- √ 1. 5 and 3
- X 2. 3 and 6
- X 3. 17 and 15
- X 4. 3 and 4

Q.5 Sharad starts from Point Y and drives 9 km towards the South. He then takes a left turn, drives 19 km, turns right and drives 23 km. He then takes a right turn and drives 8 km. He takes a right turn and drives 17 km. He then turns left, drives 11 km, turns left and drives 6 km to stop at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90 degrees turns only unless specified)

Ans

- 1 15 km towards the south
- × 2. 26 km towards the north
- X 4. 23 km towards the south

decide which of the two explain(s) the event/observation/information given in the statement. Statement – Price of tomatoes has been steadily rising in the last two weeks and has crossed ₹200 per kg in most parts of the country. Reasons: (I) Farmers have reported a new unknown insect infestation in tomato crops, which has affected the crop output of tomatoes in many states across the country. (II) Heavy flooding in many states during the monsoon season has destroyed many standing vegetable crops, leading to shortages in supplies. Ans 1 Both I and II are possible reasons. 2 Only II is a possible reason. X 3. Only I is a possible reason. X 4 Neither I nor II is a possible reason. Q.7 P is 30% more efficient than Q. How much time will they, working together, take to complete a job that P alone could have done in 23 days? Ans 🟋 1. 11 days \times 3. 20 $\frac{3}{17}$ days 4. 10 days **Q.8** Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements. Statements: Some gold are silver. Some silver are diamonds. Conclusions: (I) Some diamonds are gold. (II) Some silver are gold. Ans Note: 1 Both conclusions (I) and (II) follow. 2. Only conclusion (I) follows X 3. Neither conclusion (I) nor (II) follows 4. Only conclusion (II) follows Q.9 Who among the following is currently the Governor of the Reserve Bank of India (RBI) as of 2024? Ans 1. Shaktikanta Das 🗶 2. Raghuram Rajan X 3. Duvvuri Subbarao X 4. Urjit Patel Join Telegram "HaryanaJobs.in"

Given below is a statement followed by two possible reasons numbered I and II. Read the statement carefully and

Which of the following household items does NOT use the heating effect of current? Ans ★ 1. Electric stove (heater) X 2. Electric water heater 3. Electric iron box 4. Electric motor Q.11 The median of the observations 4, 14, 11, 8, 7, 8, 9, 12, 4 and 6 is: Ans X 1. 11 X 2. 10 **√** 3. **8** X 4. 9 Q.12 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 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 X 1 DK-HO 2. RY-VC 🗙 3. QX-UB Q.13 Which of the following Acts was amended in 2023 to enhance child protection measures in India? Ans ✓ 1. Juvenile Justice (Care and Protection of Children) Act X 2. Right to Education Act X 3. Child Labour (Prohibition and Regulation) Act X 4. Protection of Children from Sexual Offences Act Q.14 Evaluate the given expression. $(-4) + (-12) \div (-6)$ Ans \times 1. -6**√** 2. **−2 ※** 3. −4 **×** 4. −8 Q.15 Umesh took 100 chocolates out of 250 chocolates from Ruchi. Umesh gave 20% of his chocolates to Shalaka and 35% of his chocolates to Marry. Then Ruchi gave 50% of her remaining chocolates to Umesh. Find the number of chocolates Umesh had at the end. Ans X 1. 125 X 2. 130 √ 3. 120 **X** 4. 75

Q.16	Which of the following statements is correct according to the law of conservation of mass?
Ans	1. Mass can be created but cannot be destroyed in a chemical reaction.
	✓ 2. Mass can neither be created nor be destroyed in a chemical reaction.
	X 3. Mass can be destroyed in a chemical reaction.
	★ 4. Mass can be created in a chemical reaction.
Q.17	The number of chromosomes become half in a daughter cell by the process of:
Ans	★ 1. binary fission
	✓ 2. meiosis
	× 3. mitosis
	× 4. amitosis
Q.18	In a certain code language,
	A+B means 'A is the mother of B',
	A-B means 'A is the brother of B',
	$A \times B$ means 'A is the wife of B',
	A ÷ B means 'A is the father of B',
	and A # B means 'A is the daughter of B'.
	How is P related to K if 'Q $- R \times P \div S - T + K$ '?
Ans	★ 1. Daughter's son
	× 2. Son's daughter
	× 3. Father's father
	✓ 4. Mother's father
Q.19	The weights (in kg) of 9 members of a school cricket team are 50, 63, x, 62, 64, 48, 51, 55, 48. If the mean weight is 56 kg, then the value of x is
Ans	₹ 1. 48
	√ 2. 63
	× 3. 64
	× 4. 57
Q.20	Which of the following metals CANNOT be cut with a knife?
Ans	X 1. Sodium
	✓ 2. Copper
	X 3. Lithium
	X 4. Potassium

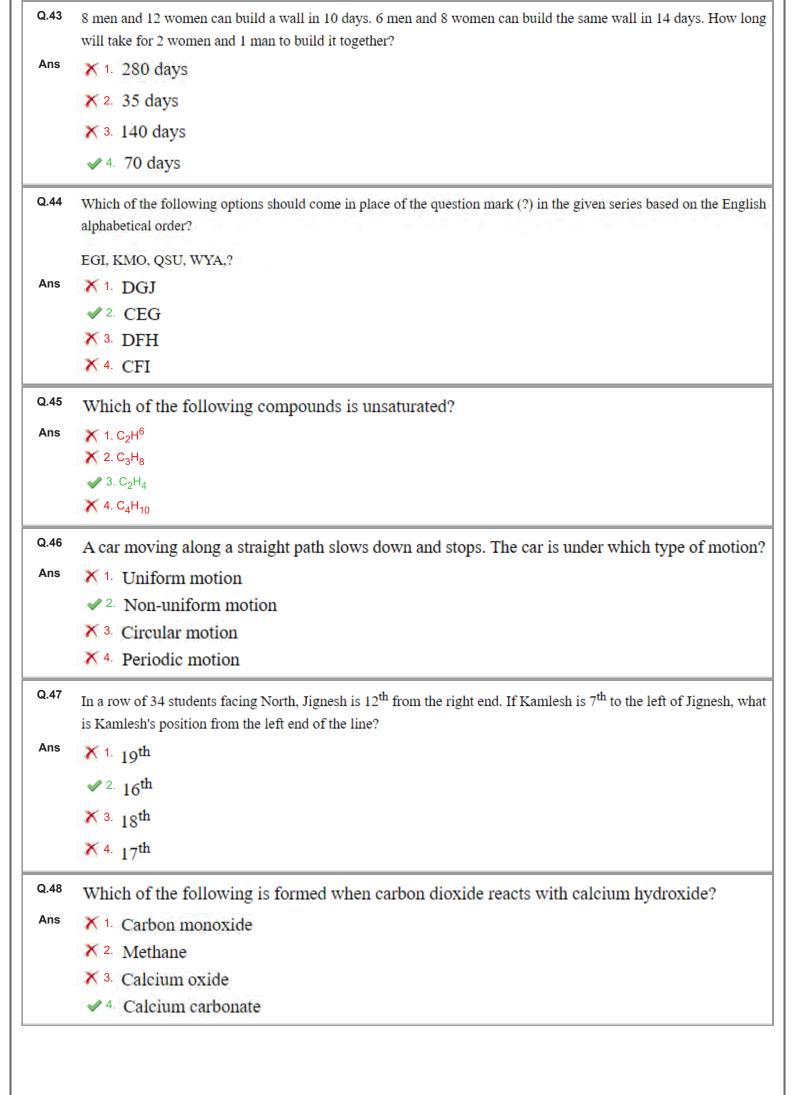
Q.21	If each vowel in the word ELASTIC is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter following it in the English alphabetical order, then which of the following letters will be fourth from the right in the group of letter thus formed?
Ans	※ 1. B
	✓ 2. T
	※ 3. M
	※ 4. U
Q.22	The gravitational force between two objects of masses m_1 and m_2 is directly proportional to
Ans	× 1. m ₂ -m ₁
	\sim 2. m_1-m_2
	m_1
	$\frac{m_1}{m_2}$
	\checkmark 4. $m_1 \times m_2$
Q.23	The HCF of the numbers 310, 208 and 180 is:
Ans	✓ 1. 2
	X 2. 4
	× 3. 6
	× 4. 8
Q.24	Which Kashmiri wood carver was honoured with the Padma Shri award in 2024 for his contributions in the field of art?
Ans	★ 1. Bashir Ahmad Mir✓ 2. Shri Ghulam Nabi Dar
	X 3. Mohammad Yousuf
	X 4. Abdul Rashid Khan
Q.25	Select the set, from the given options, in which the numbers are related in the same way as are the numbers of the following sets.
	(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.)
	(6, 13, 78)
	(5, 22, 110)
Ans	× 1. (24, 9, 206)
	× 2. (7, 13, 90)
	× 3. (8, 19, 162)
	✓ 4. (8, 12, 96)

Q.26 The magnetic field produced by a current-carrying wire at a given point depends on which of the following factors? Ans Neither distance from the wire nor current through the wire 2. Current flowing through the wire Only X 3. Distance from the wire Only 4. Both distance from the wire and current through the wire Q.27 If + means -, - means \times , \times means \div , \div means +, then what will come in place of the question mark (?) in the following equation? $28 - 6 \div 4 + 14 \times 14 = ?$ Ans **✓** 1. 171 × 2. 168 X 3. 169 X 4. 160 Q.28 Each letter in the word HYDROMETER is changed to the letter preceding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be fifth from the right in the new group of letters thus formed? Ans √ 1. N X 2. Q X 3. L X 4. G Q.29 Evaluate the given expression. $16 + 8 \div 4 - 2 \times 3$ Ans X 1. 18 X 2. 0 X 3. 6 **✓** 4. 12 Q.30 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 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 1 NJ-MP

✗ ³. PL-OR✗ ⁴. LH-KN

Q.31	If a force 'F' acts on a body such that body gets displaced through the distance 'x' in the direction of the force, then the work done by the force is
Ans	× 1. F/x
	× 2. x/F
	3. _x 2 _F
	✓ 4. Fx
Q.32	TRPMK is related to XVTQO in a certain way based on the English alphabetical order. In the same way, LJHEC is related to PNLIG. To which of the following options is KIGDB related, following the same logic?
Ans	× 1. OMKIG
	× 2. OMKIF
	× 3. NLJGE
Q.33	Which of the following options does NOT represent a property of solids?
Ans	✓ 1. It is not difficult to change their shape.
	★ 2. They have distinct boundaries and fixed volumes.
	X 3. They have a definite shape.
	1 They have a tendency to maintain their shape when subjected to outside force.
Q.34	In a certain code language, 'bright as day' is coded as 'cb mn ju' and 'day and night' is coded as 'mn fd rs'. How is
Ans	'day' coded in the given language?
	★ 1. fd★ 2. cb
	× 3. ju
Q.35	An order was placed for the supply of a carpet whose breadth was 6 m and whose length were 1.44 times the breadth. What is the cost of a carpet whose length and breadth are 40% more and 25% more respectively than the first carpet. [The cost of a carpet is Rs. 45 per sq m.]
Ans	mst curpet. [The cost of a curpet is itel. 45 per sq mi.]
	1. Rs. 3642.60
	X 1. Rs. 3642.60 X 2. Rs. 4216.20
	1. Rs. 3642.60 2. Rs. 4216.20 3. Rs. 4082.40
	X 1. Rs. 3642.60 X 2. Rs. 4216.20
Q.36	1. Rs. 3642.60 2. Rs. 4216.20 3. Rs. 4082.40
Q.36 Ans	 1. Rs. 3642.60 ★ 2. Rs. 4216.20 ★ 3. Rs. 4082.40 ★ 4. Rs. 3868.80
	 1. Rs. 3642.60 2. Rs. 4216.20 3. Rs. 4082.40 4. Rs. 3868.80 The simple interest on ₹1,280 at 5% p.a. in 3 years is: 1. ₹192 2. ₹180
	 1. Rs. 3642.60 2. Rs. 4216.20 3. Rs. 4082.40 4. Rs. 3868.80 The simple interest on ₹1,280 at 5% p.a. in 3 years is: 1. ₹192
	 1. Rs. 3642.60 2. Rs. 4216.20 3. Rs. 4082.40 4. Rs. 3868.80 The simple interest on ₹1,280 at 5% p.a. in 3 years is: 1. ₹192 2. ₹180

Q.37 A, B, E, F, L, M and P are sitting around a circular table, facing the centre. Only three people sit between P and E when counted from the left of P. Only three people sit between M and A when counted from the right of A. L sits to the immediate right of M. F is an immediate neighbour of A as well as E. Who sits second to the left of B? Ans √ 1. F X 2. P X 3. E X 4. A Q.38 Simplify: $(1 - \sec^2 \theta)(1 - \sin \theta)(1 + \sin \theta)(1 + \cot^2 \theta)$. Ans X 1. 2 **√** 2. **−1** X 3. 0 X 4. 1 What is the title of Parimal Nathwani's book, which was presented to PM Modi in 2024? Q.39 Ans 1. The Kingdom of Lions 2. The Pride of Gujarat 3. Call of the Gir 4. Asiatic Lions: A Conservation Story Q.40 If a:b=3:2 and b:c=4:5, then a:b:c=?Ans X 1. 3:4:5 √ 2. 6:4:5 X 3. 4:5:3 X 4. 6:5:4 Q.41 Which of the following types of reaction represents formation of slaked lime from calcium oxide and water? Ans X 1. Decomposition reaction × 2. Precipitation reaction Displacement reaction ✓ 4 Combination reaction Q.42 Which of the following is NOT an example of osmosis? Ans X 1. Absorption of water by plant roots 2. Movement of O₂ and CO₂ in and out of the living cell X 3. Swelling of raisins when soaked in water 4. Gaining of water by unicellular fresh water organisms



Q.49	In September 2024, Prime Minister Narendra Modi launched three supercomputers, developed indigenously under the National Supercomputing Mission.
Ans	X 1. Parma Chandra
	X 2. PARAM Surya
	✓ 3. PARAM Rudra
	4. PARAM Shakti
Q.50	RGEL is related to VKAH in a certain way based on the English alphabetical order. In the same way, HWOV is related
	to LAKR. To which of the following options is TICJ related, following the same logic?
Ans	X 1. XNYG
	× 2. XNYF
	X 4. XMZF
Q.51	The Defence Research and Development Organisation's headquarters is located in
Ans	✓ 1. New Delhi
	X 2. Hyderabad
	X 3. Bengaluru
	X 4. Mumbai
Q.52	The nature of an image formed by a concave mirror when an object is kept at the position between the principal focus
	and the pole of the mirror is
Ans	× 1. virtual and inverted
	× 2. real and inverted
	× 3. real and erect
	✓ 4. virtual and erect
Q.53	A dishonest dealer professes to sell goods at the cost price, but uses a false weight of 900 grams instead of a kg. His
	gain percentage is:
Ans	\times 1. $11\frac{2}{9}\%$
	2. 11%
	× 4. 10%
Q.54	Amit bought a laptop at a 25% discount on its marked price. If he paid ₹28,500 for the laptop, what was its marked
	price?
Ans	√ 1. ₹38,000
	× 2. ₹37,400
	× 3. ₹37,000
	× 4. ₹38,600

Q.55	Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.
	Statements:
	Some cars are bikes.
	All bikes are trucks.
	Conclusions:
	(I) Some trucks are cars.
	(II) All trucks are cars.
Ans	★ 1. Only conclusion (II) follows
	✓ 2. Only conclusion (I) follows
	X 3. Neither conclusion (I) nor (II) follows
	★ 4. Both conclusions (I) and (II) follow
Q.56	Select the correct option for liquid connective tissue.
Ans	★ 1. Cartilage
	× 2. Adipose connective tissue
	X 3. Blood
	✓ 4. Areolar connective tissue
Q.57	The sum of a two-digit number and the number obtained by reversing the digits is 99. If the digits of the number differ by 7, then the two-digit number can be:
Ans	X 1. 29
	× 2. 92
	× 3. 19
	✓ 4. 81
Q.58	Select the number from among the given options that can replace the question mark (?) in the following series.
	175 221 267 313 359 ?
Ans	₹ 1. 413
	× 2. 431
	✓ 3. 405
	★ 4. 429

Q.59 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of :: ? (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.) X:649::956:Y Ans \times 1. X = 923, Y = 738 \checkmark 2. X = 894, Y = 711X = 944, Y = 742X 4. X = 876, Y = 724 Q.60 How many such pairs of letters are there in the word JOURNEY (in forward direction), each of which has as many letter in the same sequence between them in the word as in the English alphabet? Ans 1 Three X 2. One X 3. Four √ 4. Two India scripted history at the 2024 edition of Chess Olympiad, winning the gold medal in both the open and women's section Q.61 Ans 1. First Time X 2. Second Time X 3. Third time X 4. Fourth Time Q.62 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order? SHK, WLO, APS, ETW,? Ans X 1. IXB √ 2. IXA **X** 3. JXA 4. IYA Q.63 Find the perimeter of a rhombus whose diagonals are of lengths 6 cm and 8 cm. Ans X 1. 24 cm 2. 25 cm √ 3. 20 cm X 4. 26 cm

Q.64 Ans	Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only two people sit to the left of A. Only three people sit between G and A. C is an immediate neighbour of F and E. D sits second to the left of F. How many people sit to the left of F? 1. Three 2. Two 3. Four 4. One Which of the following organisms does NOT show asexual reproduction by means of fission? 1. Leishmania 2. Amoeba 3. Earthworm 4. Plasmodium	
Q.66		
Ans	Which element is needed by the thyroid gland to produce thyroxine hormone? 1. Sodium	
	× 2. Iodine	
	× 3. Calcium	
	✓ 4. Potassium	
Q.67	Two trains of equal length, running at the speeds of 60 km/h and 40 km/h, take 50 seconds to cross each other while they are running in the same direction. What time will they take to cross each other if they are running in opposite directions?	
Ans	★ 1. 8 sec	
	✓ 2. 10 sec	
	★ 3. 9 sec	
	X 4. 7 sec	
Q.68	Ms. Yanung Jamoh Lego, who has been conferred with Padma Shri award in the field of Agriculture in 2024, belongs to which state of India?	
Ans	X 1. Madhya Pradesh	
	X 2. Rajasthan	
	★ 3. Maharashtra✓ 4. Arunachal Pradesh	
	<u> </u>	-
Q.69	In a certain code language, 'RUIN' is coded as '3719' and 'RUNG' is coded as '7916'. What is the code for 'G' in the given code language?	
Ans	X 1. 7	
	√ 2. 6	
	× 3. 9	
	× 4. 1	

Q.70	When white light is incident on aglass prism, it undergoes dispersion. This phenomenon is due to
Ans	✓ 1. refractive index of the glass being different for different colours
	× 2. interference of the light
	× 3. diffraction of the light
	× 4 refractive index of the glass being the same for different colours
Q.71	What organisation is hosting the six-day international festival on Indian dance from 16 October 2024 in Delhi?
Ans	X 1. Kalakshetra Foundation
	X 2. Indian Council for Cultural Relations
	√ 3. Sangeet Natak Akademi
	X 4. Kathak Kendra
Q.72	A solution contains 40 g of common salt in 320 g of water. What is the concentration of the solution in terms of mass by mass percentage?
Ans	X 1. 11.0%
	× 2. 11.3%
	× 3. 1.0%
Q.73	Who among the following won the Gold Medal in 2020 Paralympics and Silver in 2024 Paralympics in Shooting?
Ans	X 1. Nishad Kuamr
	✓ 2. Manish Narwal
	X 3. Pramod Bhagat
	X 4. Rubina Francis
Q.74	By how much is 80% of 40 greater than $\frac{4}{5}$ of 25?
Ans	✓ 1. 12
	× 2. 6
	★ 2. 6★ 3. 9
Q.75	X 3. 9
Q.75 Ans	X 3. 9 X 4. 4
_	X 3. 9 X 4. 4 Which of the following substances can move across the cell membrane by diffusion?
_	 X 3. 9 X 4. 4 Which of the following substances can move across the cell membrane by diffusion? ✓ 1. Oxygen

2024/12/03-04:54:59



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	29/11/2024
Test Time	12:30 PM - 1:30 PM
Subject	ALP Stage 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 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 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

- X 1. FK-IN
- × 2. DI-GL
- 4. QV-TY
- Q.2 According to the '2024 State of the Rhino' Report by the International Rhino Foundation (IRF), which species of rhino could be severely affected by climate change?

Ans

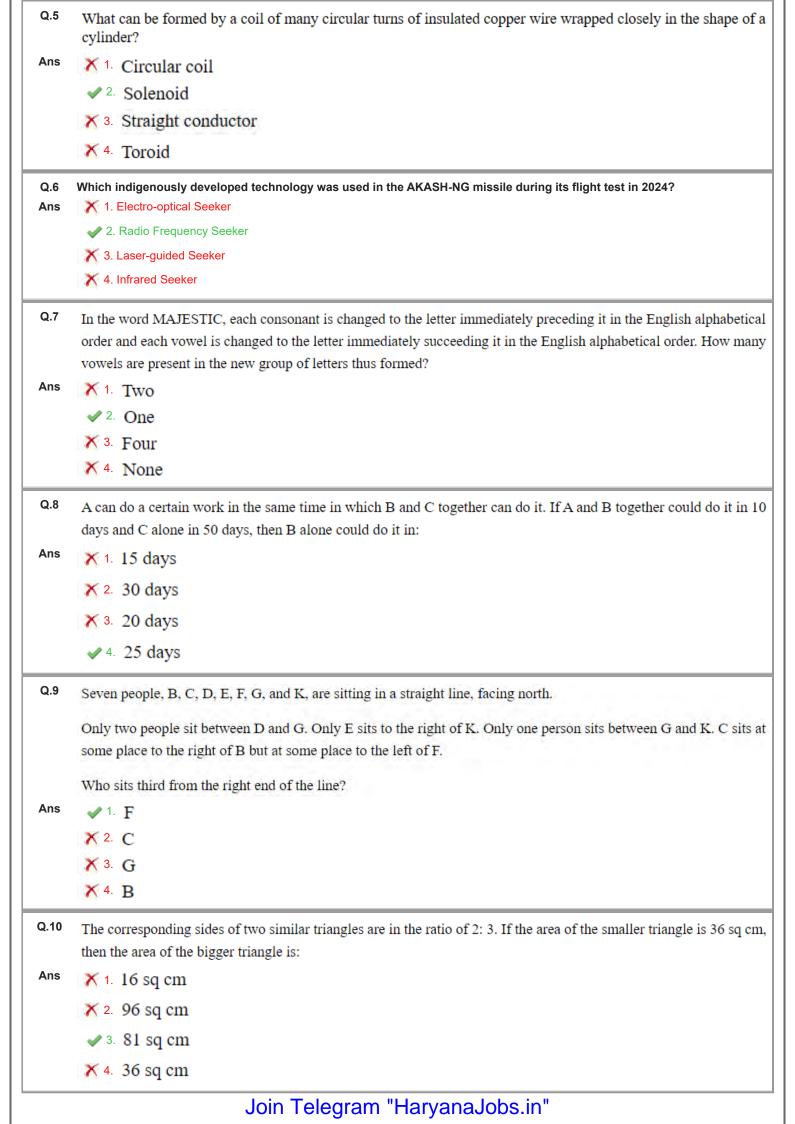
- X 1. Sumatran Rhino
- X 2. Javan Rhino
- 3. Black Rhino
- X 4. Greater One-horned Rhino
- Q.3 A reduction of 20% in the price of sugar enables a purchaser to obtain 2.5 kg more for ₹160. The original price per kg of sugar is:

Ans

- X 1. ₹12
- √ 2. ₹16
- × 3. ₹20
- X 4. ₹15
- Q.4 Two trains travelling in the same direction at 40 km/h and 22 km/h cross each other completely in 1 minute. If the length of the first train is 125 m, what is the length of the second train?

Ans

- √ 1. 175 m
- X 2. 185 m
- 🔀 3. 150 m
- X 4. 125 m



Q.11	Each vowel in the word JOURNALIST is changed to the letter following it in the English alphabetical order, and each consonant is changed to the letter preceding it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?
Ans	× 1. Two
	× 2. Three
	√ 3. None
	× 4. One
Q.12	Which of the following options does NOT represent a property of liquids?
Ans	1. Liquids have no fixed shape.
	× 2. Liquids flow and change shape.
	✓ 3. Liquids do not have fixed volume.
	★ 4. Liquids take the shape of the container in which they are kept.
Q.13	A, B, C, D, E and F are sitting around a circular table facing the centre. C sits to the immediate left of E. F is an immediate neighbour of A and C. D is not an immediate neighbour of E. What is the position of D with respect to F?
Ans	7. Third to the left
	× 2. Immediate left
	✓ 3. Second to the left
	X 4. Third to the right
Q.14	In 2024, the Ministry of Women and Child Development launched the platform to register and monitor complaints of sexual harassment of women at the workplace.
Ans	1. Work Guard
	✓ 2. SHe-Box
	X 3. WomenSafe
	4. Secure Her
Q.15	The oxygen molecule is a
Ans	1. triatomic molecule
	√ 2. diatomic molecule
	X 3. tetratomic molecule
	× 4. monoatomic molecule
Q.16	If the mean of a distribution is 8.73 and its median is 11, then the mode of the distribution is (using
	empirical relation).
Ans	✓ 1. 15.54
	× 2. 19.73
	3. 22
	★ 4. 17.46

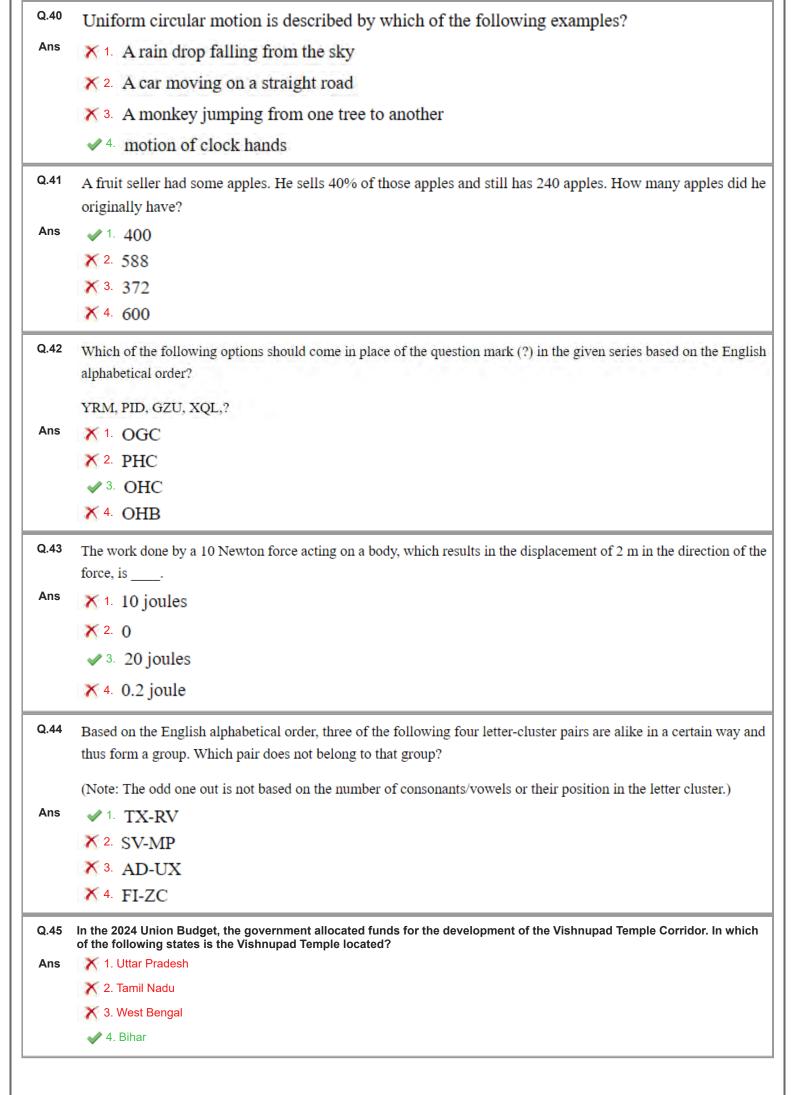
Which two numbers should be interchanged to make the given equation correct? $3 \times (9 + 7 - 5) + (64 \div 2) - 22 + 78 - 8 \times 4 = 82$ (Note: Interchange should be done of the entire number and not individual digits of a given number.) Ans X 1. 3 and 4 X 2. 2 and 4 3. 64 and 78 X 4. 7 and 5 Q.18 If 'I' stands for '+', 'J' stands for 'x', 'K' stands for '÷' and 'L' stands for '-' what will come in place of the question mark '?' in the following equation? (35 L 19) J 4 I 26 L (7 J 3) I 11 = ?Ans × 1. 105 × 2. 60 **3.80** X 4. 120 Q.19 The force of attraction between two bodies which is directly proportional to the product of masses of the bodies and inversely proportional to the square of the distance of separation is _____. Ans 1 gravitational force × 2. electromagnetic force X 3. electrostatic force ¾ 4. electromotive force Q.20 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::? (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.) X:803::469:Y Ans \checkmark 1. X = 545, Y = 727 \times 2. X = 512, Y = 792 X = 558, Y = 712 \times 4. X = 526, Y = 758 Q.21 The following substances are stored in the vacuole of plant cells, EXCEPT: Ans 1. sugars 2. proteins X 3. amino acids ¾ 4. mineral salts

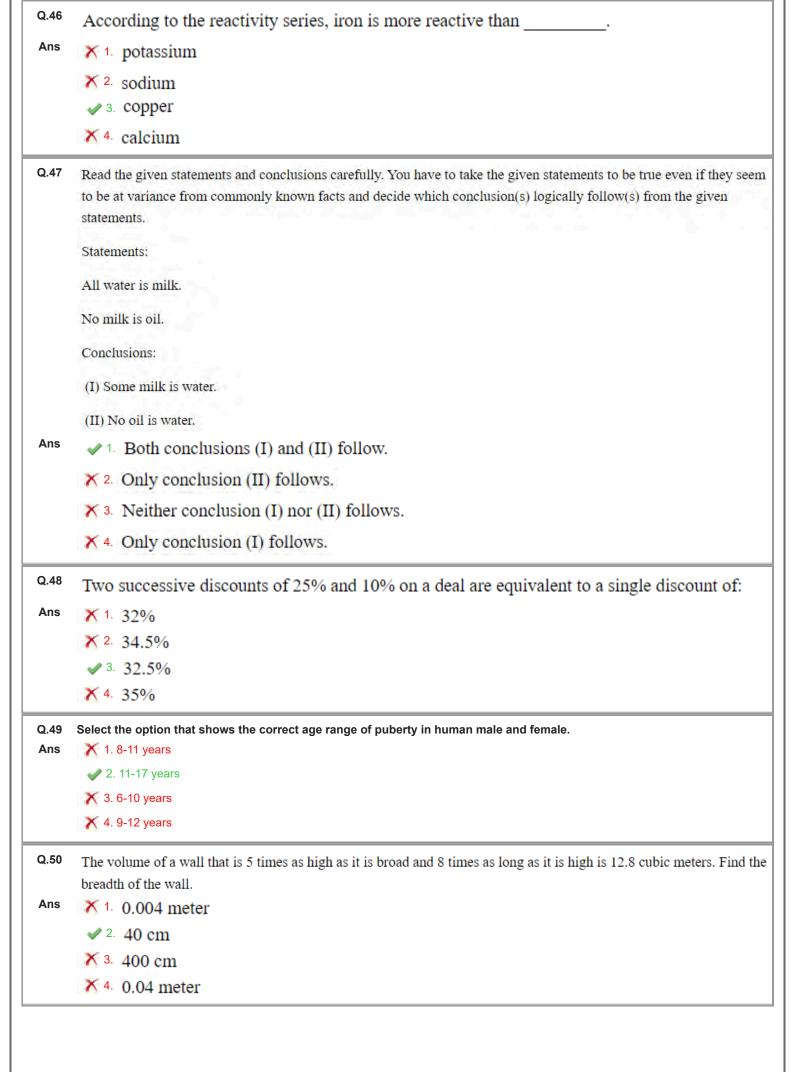
Q.22 Which of the following has the lowest pH value? Ans Lemon juice X 2. Blood Milk of magnesia 4. Gastric juice Q.23 If each consonant in the word GRAVITY is changed to the letter immediately preceding it in the English alphabetical order and each vowel is changed to the letter immediately succeeding it in the English alphabetical order. How many consonants are present in the new group of letters thus formed? Ans ✓ 1. Six X 2. Two X 3. Seven X 4. Three Q.24 Malarial parasite shows which type of asexual reproduction? Ans X 1. Binary fission X 2. Regeneration X 3. Budding 4. Multiple fission Q.25 Which of the following is NOT a characteristic feature of epithelial tissue? Ans X 1 Have no intercellular spaces X 2. Covers most organs and cavities within the body X 3. Are tightly packed ✓ 4. Separated from the underlying tissue by a cellular, non-fibrous basement membrane Q.26 Evaluate the given expression. $19 - 20 \div 4$ Ans **X** 1. −1 X 2. 24 X 3. 19 **√** 4. **14** Q.27 An amount is divided between two friends in the ratio 4 : 7. If the second part is ₹6 more than the first, then the difference in amount between two friends is: Ans **X** 1. ₹2 2. ₹6 **X** 3. ₹4 **X** 4. ₹3

Q.28	By how much is 50% of 60 greater than 30% of 40?
Ans	X 1. 15
	✓ 2. 18
	× 3. 20
	× 4. 13
Q.29	Power of a lens of focal length 'f' is directly proportional to
Ans	√ 1. 1/f
	\times 2. \mathbf{f}^2
	X 3. f
	\times 4. $1/f^2$
Q.30	The resistance of a conductor of length 'L' and cross-section area 'A' is directly proportional to
Ans	X 1. A
	※ 2. L ²
	★ 4. A/L
Q.31	For what value of K is the equation $\frac{0.009}{K} = 0.1$ true?
Ans	X 1. 9
	✓ 2. 0.09
	× 3. 0.9
	★ 4. 0.0009
Q.32	Select the correct statement.
Ans	✓ 1. Pollination is transfer of pollen grains from stamen to stigma.
	2. Pollination is the growth of pollen tube in ovule.
	73. Pollination is visit of insects to the flower.
	× 4. Pollination is germination of pollen grains.
Q.33	
	Simplify the expression: $\sqrt{\frac{1+\cos\theta}{1-\cos\theta}}$ is:
Ans	\times 1. $\sec \theta + \cot \theta$
	\times 2. cosec θ — cot θ
	\times 3. $\sec \theta - \cot \theta$
	\checkmark 4. cosec θ + cot θ
Q.34	The 63 rd National Open Athletics Championship was conducted in the city of
Ans	1. Bhopal
	2. Hyderabad
	✓ 3. Bengaluru ✓ 4. Mumbai
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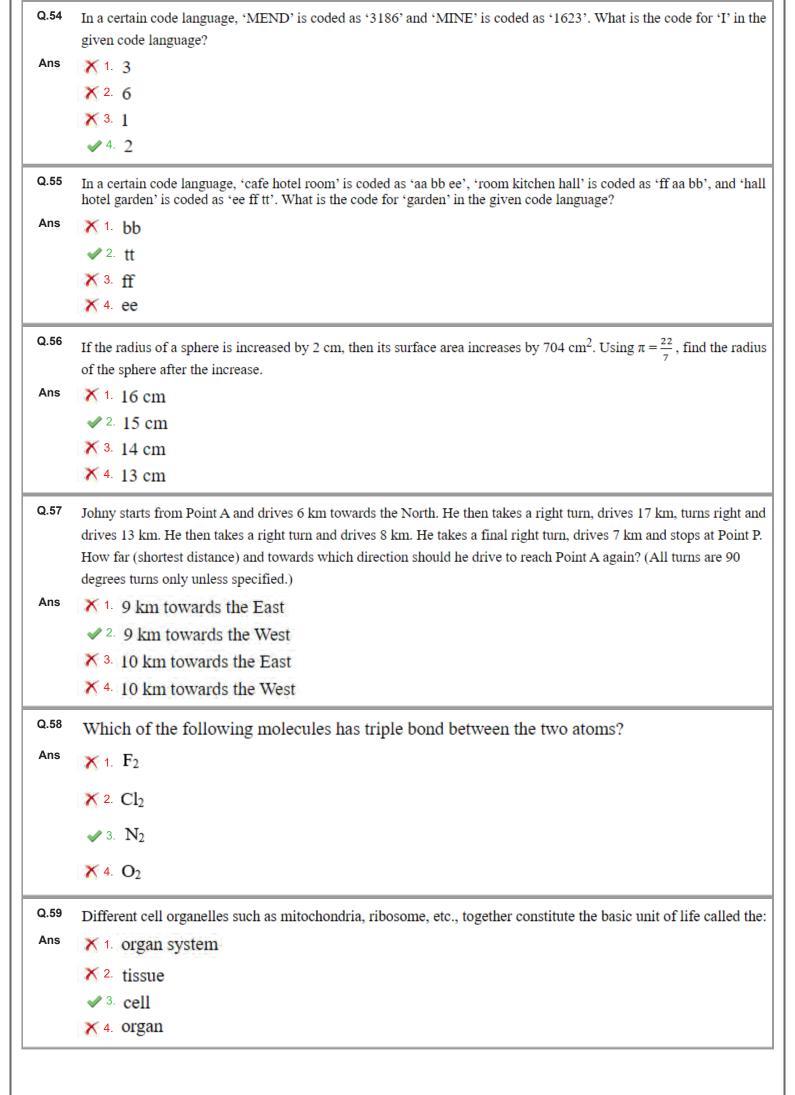
Q.35	On 9 November 2023, N Srikant was appointed as the Additional Secretary in the Union Ministry of
Ans	1. Power and New and Renewable Energy
	X 2. Finance
	X 3. Environment and ForestsX 4. Housing and Urban Affairs
	4. Housing and Orban Analis
Q.36	Which of the following missions will lead to India's first human presence on the International Space Station (ISS)? ✓ 1. Axiom-4
Ans	X 2. Taxsci-4
	X 3. VenSpac-4
	X 4. Spacoon-4
Q.37	In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of :: ?
	(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.)
	X: 676:: 17:Y
Ans	X = 21, Y = 396
	\times 2. $X = 23, Y = 400$
	\checkmark 3. $X = 25, Y = 324$
	\times 4. $X = 28, Y = 361$
Q.38	Which rapper, known for the indie album 'Halaat', has risen from the slums of Dharavi to the forefront of Indian hip hop
Ans	music? 1. Naezy
	✓ 2. MC Altaf
	X 3. Divine
	X 4. Emiway Bantai
Q.39	In a certain code language,
	A+B means 'A is the mother of B',
	A-B means 'A is the brother of B',
	$A \times B$ means 'A is the wife of B' and
	A ÷ B means 'A is the father of B'.
	Based on the above, how is Q related to T if 'P \times Q \div R – S + T'?
Ans	✓ 1. Mother's Father
	× 2. Mother's brother
	X 3. Brother
	× 4. Husband

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Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements. Statements: Some vegetables are fruits. Some fruits are sweets. Conclusions: (I) Some fruits are vegetables. (II) Some sweets are vegetables. Ans 1. Neither conclusion (I) nor (II) follows. 2. Only conclusion (I) follows. X 3. Only conclusion (II) follows. X 4. Both conclusions (I) and (II) follow. Q.52 Which of the following options should come in place of the question mark (?) in the given series to make it logically complete? 125, 128, 133, 140, 149,? Ans X 1. 156 2. 160 X 3. 158 X 4. 154 Q.53 In this question, a statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the courses of action logically follow(s) for pursuing. Statement: Long queues are seen outside the electricity bill payment counters on 14th and 15th of each month, as 15th of each month is the last date for payment of electricity bills. Citizens have lodged several complaints with the electricity board regarding this difficulty in payment. Courses of Action: (I) The electricity board should set up additional counters for payment collection on $14^{\mbox{th}}$ and $15^{\mbox{th}}$ of each month, to make it easier for citizens. (II) The electricity board should increase the penalty to be paid after the specified last date. Ans 1. Only I follows 2. Both I and II follow 3. Only II follows X 4. Neither I nor II follows



Q.60	The book 'Coaching Beyond: My Days with the Indian Cricket Team' is authored by R Sridhar and the foreword is by
Ans	1. Sachin Tendulakar
	✓ 2. VVS Laxman
	X 3. Rahul Dravid
	X 4. Saurabh Ganguly
Q.61	In an election between two candidates, 75% of the voters cast their votes. 2% of the votes cast were declared invalid. A candidate got 9261 votes which were 75% of the total valid votes. The total number of voters enrolled in that election was:
Ans	× 1. 16,400
	× 2. 18,000
	✓ 3. 16,800
	× 4. 10,000
Q.62	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	BJL, EMO, HPR, KSU, ?
Ans	✓ 1. NVX
	× 2. NUY
	X 3. NVY
	X 4. NUW
Q.63	Simplify the following expression:
	9992×10008
Ans	× 1. 91999964
	√ 2. 9999936
	× 3. 9999964
	X 4. 9999936
Q.64	If $x : y = 8 : 3$, then $(x - y) : (x + y) = ?$
Ans	× 1. 2:5
	√ 2. 5 : 11
	× 3. 5:2
	× 4. 11:5
Q.65	QLPK is related to IDHC in a certain way based on the English alphabetical order. In the same way, VQUP is related to NIMH. To which of the following options is TOSN related, following the same logic?
Ans	X 1. GLFK
	× 2. GLKF
	X 3. LGFK
	✓ 4. LGKF

Q.66 Which of the following is the correct statement about colloidal solutions? Ans 1. The size of particles of the colloid is not too small. 2. A colloidal solution is a homogeneous mixture. X 3. Colloids do not scatter a beam of light passing through them and make its path visible. The components of a colloidal solution are the dispersed phase and the dispersion medium. Q.67 Study the given table and answer the question that follows. The table depicts the number of different articles X and Y sold in the year 2019 and 2020. Years Number of article X Number of article Y 2019 125 150 2020 110 130 What is the absolute difference between the number of article X sold in the year 2019 and 2020? Ans √ 1. 15 × 2. 45 **X** 3. 25 X 4. 35 Q.68 Which of the following is NOT an example of combination reaction? Ans X 1. Burning of natural gas Calcium oxide reacts vigorously with water to produce slaked lime X 3. Formation of water from H₂(g) and O₂(g) 4. Silver chloride turns grey in sunlight Q.69 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern. FB-IE-LM JF-MI-PQ Ans X 1. NI-QN-TU

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× 2. KG-NJ-QS

X 3. HD-KG-NP

Marks obtained	No. of students
25	5
30	6
35	3
40	1

Find the mean marks of the following distribution.

Q.70

Ans X 1. 32

× 2. 29

3. 30

X 4. 31

Q.71

Ariel ranked 6th from the top and 18th from the bottom in her class. How many students are there in the class?

Ans

√ 1. 23

X 2. 26

X 3. 25

X 4. 22

Q.72

Arnab buys 9 oranges and 8 bananas for ₹276. When the cost of an orange is decreased by 10% and that of a banana remains the same, then the cost of 5 oranges and 10 bananas is ₹210. What is the original cost of 4 oranges and 3 bananas?

Ans

√ 1. ₹116

X 2. ₹120

X 3. ₹123

X 4. ₹108

Q.73 The line joining the centre of curvature and the pole of a given spherical mirror is called

Ans

X 1. principal focus

2. principal axis

X 3. focal length

X 4. radius of curvature

In 2024, which of the following Indian banks launched the Green Rupee Term Deposit?

Ans

🟋 1. Central Bank of India

2. State Bank of India

X 3. HDFC Bank

X 4. ICICI Bank

Q.75

How long will it take for ₹1,500 to become ₹2,040 at a rate of 8% per annum simple interest?

Ans

🔀 1. 3 years

 \checkmark 2. $4\frac{1}{2}$ years

x 3. 2 years

 \times 4. $4\frac{3}{4}$ years

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS CEN 01/2024 - ALP / सहायक लोको पायलट



Test Date	29/11/2024
Test Time	4:30 PM - 5:30 PM
Subject	ALP Stage 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 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(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 /deleting /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.)

(144, 12, 6)

(210, 15, 7)

Ans

- **1** (96, 8, 6)
- **2** (156, 13, 7)
- **X** 3. (180, 9, 11)
- **X** 4. (100,10,4)

Q.2 For which book did Gaurav Pandey win the Sahitya Akademi Yuva Puraskar in 2024?

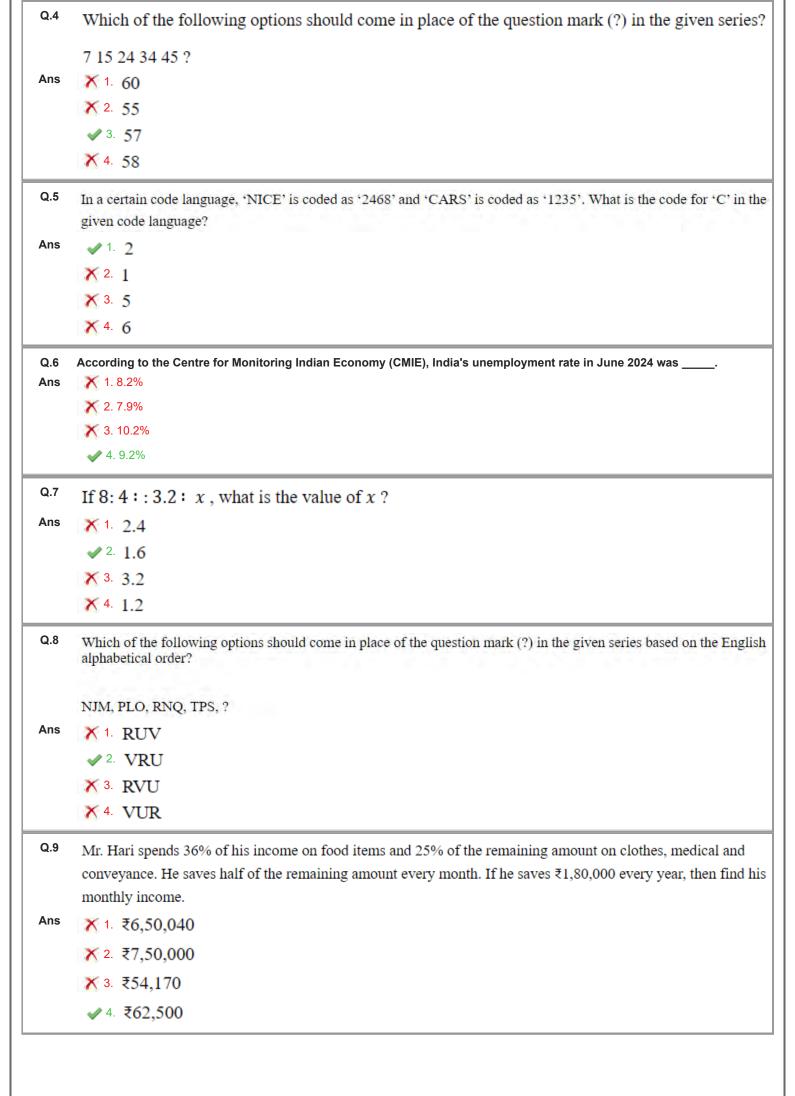
Ans

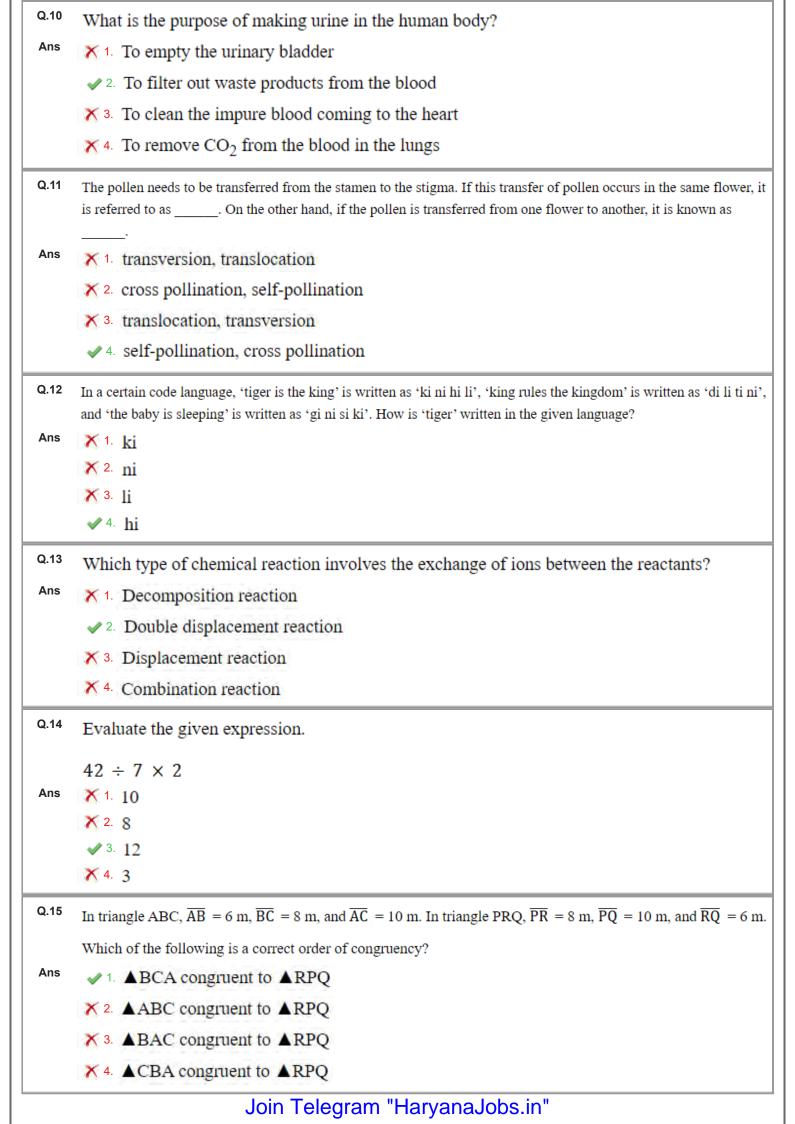
- 1. Smritiyon Ke Beech Ghiri Hai Prithvi
- X 2. Jeevan Ka Rang
- X 3. Kavya Ka Prakash
- \chi 4. Manzil Ki Talaash

Q.3 What is used in the preparation of calcium sulphate hemihydrate?

Ans

- X 1. Sodium Hydrogen Carbonate
- X 2. Sodium Carbonate
- X 4. Copper Sulphate





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Q.16
       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.
       ARH: YOJ
       SFP: QCR
Ans
     1. QPV : OLP
       X 2. FTH: BNZ
       3. WBN : YFT
        Where were the indigenously developed Param Rudra Supercomputers deployed, in September 2024?
Q.17
Ans
       X 1. Mumbai, Bengaluru and Kolkata
        2. Pune, Delhi and Kolkata
       💢 3. Bengaluru, Delhi and Mumbai
       X 4. Pune, Bengaluru and Kolkata
Q.18
       In organisms such as Amoeba, the splitting of the two cells during division can take place in
Ans

✓ 1. any plane

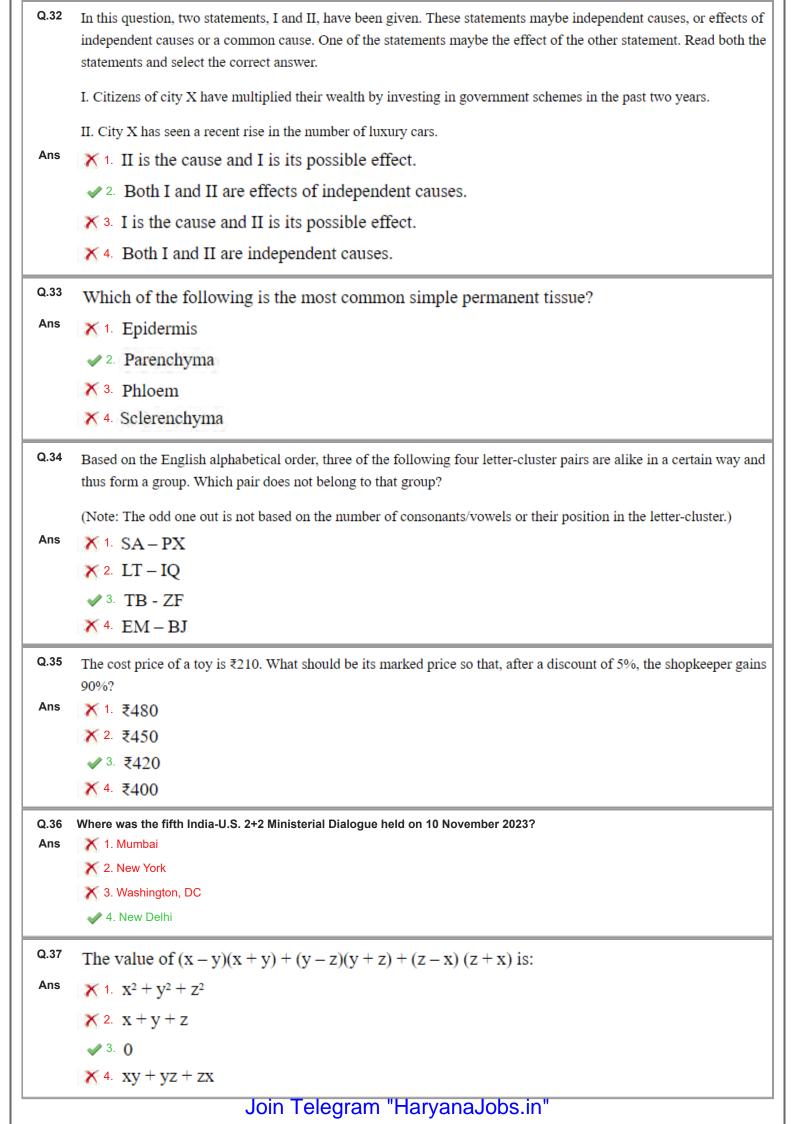
       × 2. one fixed plane
       X 3. two fixed planes
       * 4 multiple equal planes
Q.19
       A dishonest shopkeeper claimed to have sold an item at ₹23/kg, which cost him ₹25/kg. However, by using faulty
       weights, he gave only 600 gm instead of 1 kg. What is his total percentage profit or loss?
Ans
      1. 23% loss
      X 2. 20% loss
      \times 3. 62\frac{1}{2}% profit
       \checkmark 4. 53\frac{1}{2}% profit
Q.20
       If LCM (27, n) = 54 and HCF (27, n) = 9, then the value of n is:
Ans
     X 1. 24

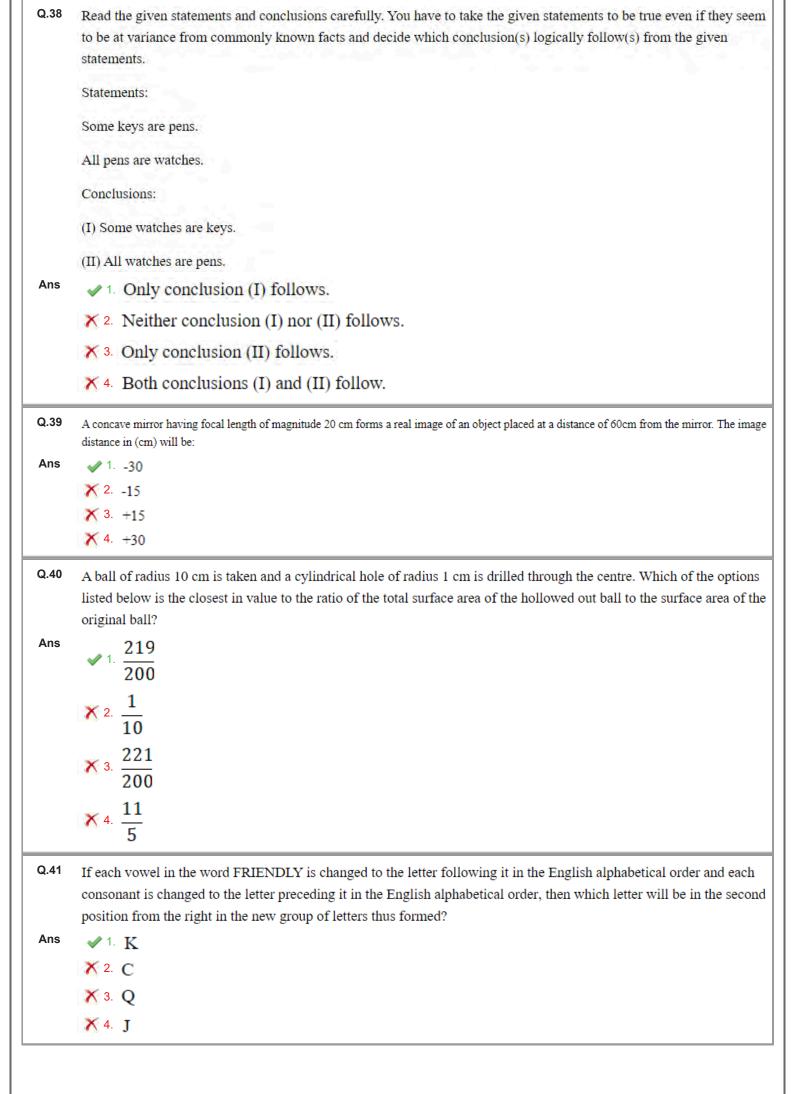
√ 2. 18

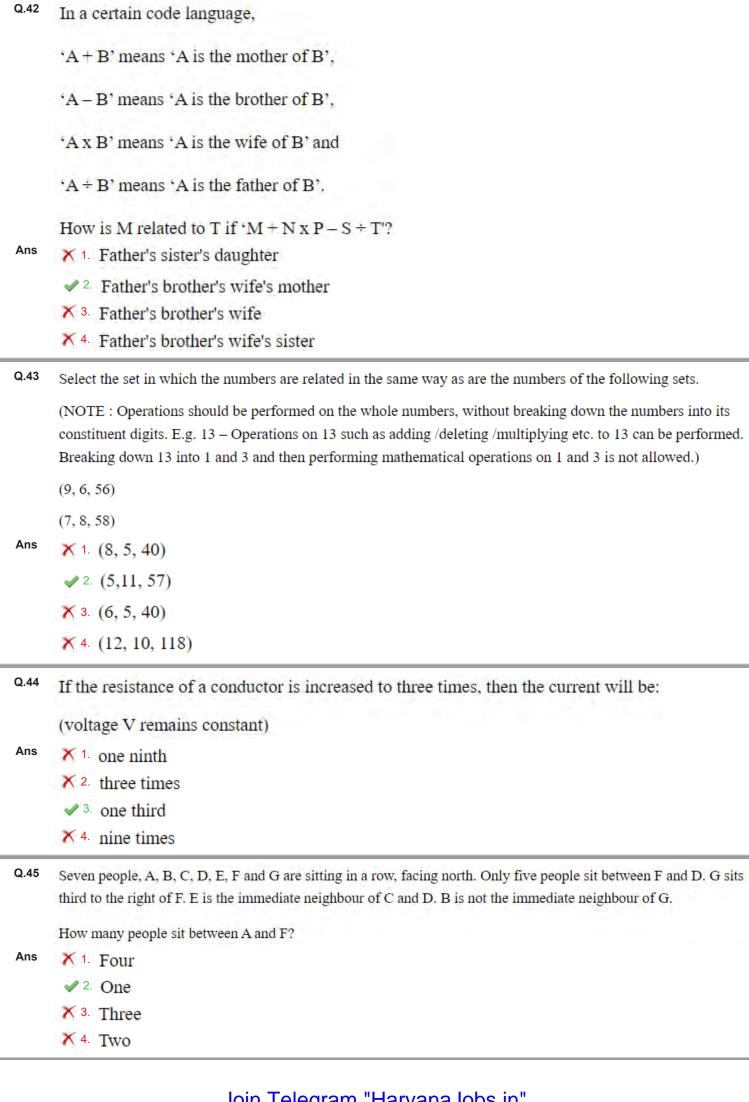
       X 3. 54
       X 4. 36
Q.21
       The force exerted by the earth on the moon is:
       (Consider G = 6 \times 10^{-11} \text{Nm}^2 \text{kg}^{-2}; mass of the earth M = 6 \times 10^{24} \text{kg}; mass of the moon =
       8 \times 10^{22} kg, and distance between earth and moon is 4 \times 10^8 m).
Ans
       X 1. 1.8 × 10<sup>18</sup> N
       \checkmark 2. 1.8 × 10<sup>20</sup> N
       \times 3. 1.8 × 10<sup>24</sup> N
       X 4. 1.8 × 10<sup>22</sup> N
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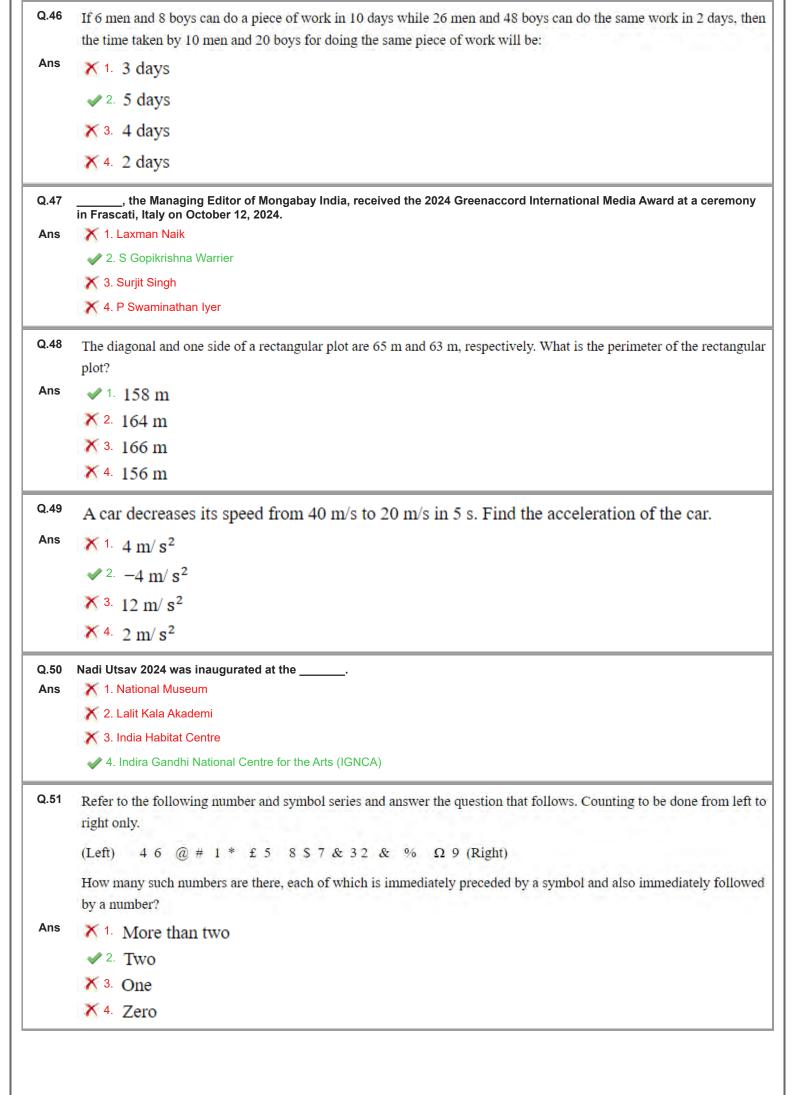
Which of the following events is a consequence of atmospheric refraction? Ans × 1 Shaving mirrors to form large image of face 2. Image formation by plain mirrors X 3. Rainbow formation 4. Advance sunrise and delayed sunset Q.23 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Left) 9 # 2 6 @ 8 \$Ω 1 * £ 5 7 & % 4 3 (Right) How many such symbols are there, each of which is immediately preceded by a number and also immediately followed by a symbol? Ans 1 More than two X 2. One X 3. Zero 4. Two Q.24 If θ is an acute angle, find the denominator D, when $(\cot \theta - \csc \theta)^2 = \frac{1 - \cos \theta}{D}$ \times 1. 1 + $\sin \theta$ \times 2. $-\sin\theta - 1$ \times 3. $-1 - \cos \theta$ \checkmark 4. 1 + $\cos \theta$ Q.25 What was the theme of 'Financial Literacy Week 2024', conducted by the Reserve Bank of India from 26 February to 01 Ans 1. Credit Discipline and Credit from Formal Institutions 💢 2. Good Financial Behaviour, Your Saviour 3. Make a Right Start : Become Financially Smart X 4. Go Digital, Go Secure Q.26 8 men and 12 women can build a wall in 10 days. 6 men and 8 women can build the same wall in 14 days. How long will it take for 1 woman to build it alone? Ans 1. 280 days 🔀 2. 140 days X 3. 350 days X 4. 700 days

Q.27	The kinetic energy of a moving object is dependent on which of the following quantities:
	i) Mass of the body
	ii) Square of the velocity
	iii) Pressure
Ans	1. Only (iii)
	✓ 2. Both (i) and (ii)
	X 3. Only (i)
	X 4. Both (ii) and (iii)
Q.28	FIGH is related to KNLM in a certain way based on the English alphabetical order. In the same way, RUST is related to WZXY. To which of the following options is HKIJ related, following the same logic?
Ans	1. MQNO
	✓ 2. MPNO
	X 3. LQNO
	X 4. NPLO
Q.29	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 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	X 1. ME − JB
	 ✓ 2. UM - GZ X 3. SK – PH
	× 4. FX − CU
0.00	
Q.30	A, B, C, D, E, F and G are sitting around a circular table facing the Centre.
	D sits third to the left of F. G sits second to the left of D. G sits to the immediate right of E. B sits to the immediate left
	of A.
Ans	What is the position of D with respect to B?
Alls	1. Second to the left
	✓ 2. Immediate left
	X 3. Second to the right
	X 4. Immediate right
Q.31	Two circular coils A and B, have the same radius R, and carry the same current I, but have 50 and 100 turns, respectively. The magnetic field produced:
Ans	\times 1. by A = by B
	\checkmark 2. by B > that of A
	X 3. by A and B are undetermined
	× 4. by A > that of B





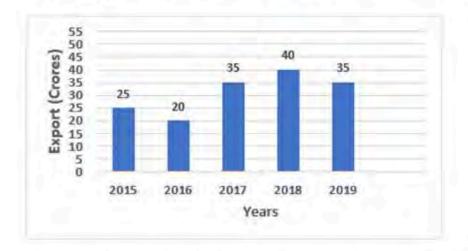




Q.52 If A means +, B means -, C means ×, D means ÷, then what will come in place of the question mark (?) in the following equation? 18 D 2 A 4 C 5 B 15 = ?Ans X 1. 16 **√** 2. 14 X 3. 12 X 4. 18 Q.53 If $\frac{155}{0.155} = \frac{15.5}{K}$, then the value of *K* is: Ans 1. 1.55 × 2. 15.51 **✓** 3. 0.0155 X 4. 155 Q.54 The smallest natural number that must be added to 1212 to make it a perfect square is: Ans X 1. 27 **√** 2. **13** X 3. 18 X 4. 24 Q.55 Identify the correct match of plant hormones with their functions. Ans Gibberellins: Help in the growth of the stem 1. Cytokinins : Promote cell division Abscisic acid: Inhibits growth Gibberellins: Help in the growth of the stem X 2. Cytokinins : Inhibits growth Abscisic acid: Promote cell division Gibberellins: Promote cell division X 3. Cytokinins: Help in the growth of the stem Abscisic acid: Inhibits growth Gibberellins: Inhibits growth X 4. Cytokinins : Promote cell division Abscisic acid: Help in the growth of the stem

Q.56 Study the following graph and answer the given question.

The bar graph shows the annual exports (in crores) of a company during the period 2015 to 2019.



What is the respective ratio between the annual export of 2015 to the annual export of 2017?

Ans

X 1. 13:16

X 2. 4:9

X 3. 6:11

✓ 4. 5:7

Q.57 Which of the following is the formulas unit mass of NaCl?

Ans

🗶 1. 71 u

× 2. 46.5 u

X 3. 94 u

√ 4. 58.5 u

Q.58 Out of his total income, Sanjay spends 20% on house rent and 70% of the rest on household expenses. If he saves ₹1,800, then his total income is:

Ans

X 1. ₹9,000

X 2. ₹10,000

√ 3. ₹7,500

X 4. ₹8,000

Q.59 Which of the following is a saturated carbon compound?

Ans

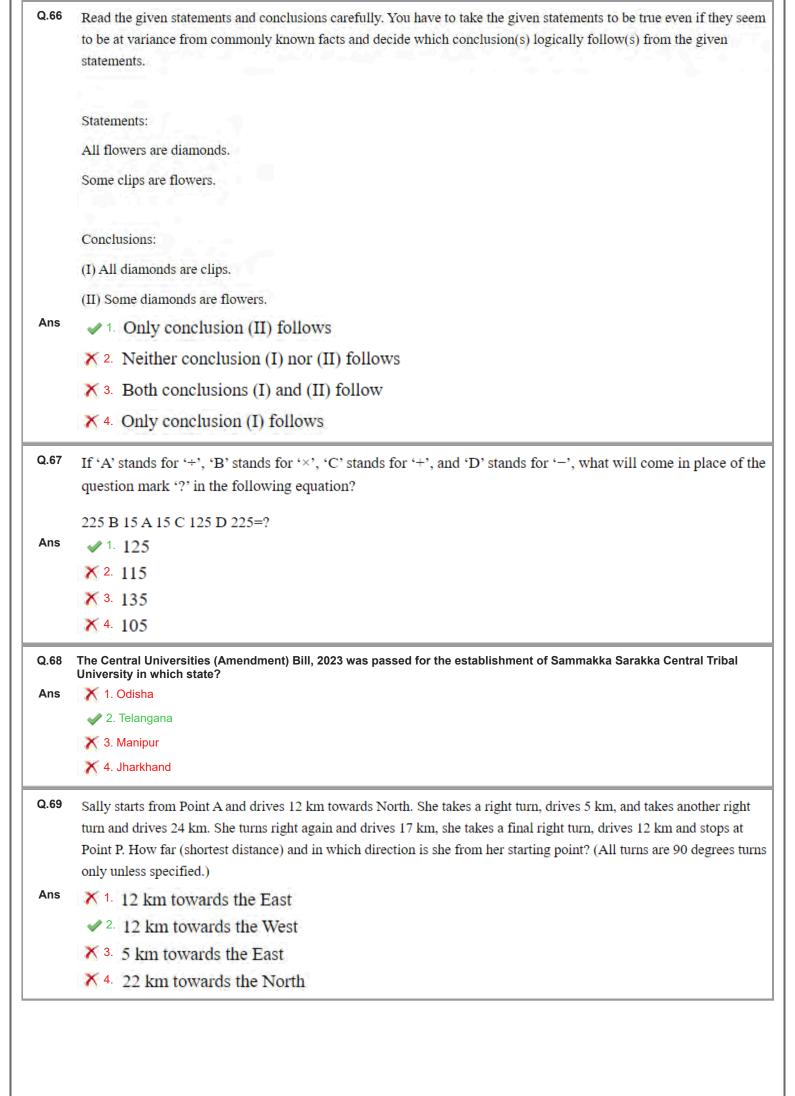
✓ 1. Alkane

X 2. Alkyne

X 3. Alkene

4 Ethylene

Q.60	The full form of SER, a cell organelle, which helps in the manufacture of fat molecules, or lipids, important for cell function is
Ans	★ 1. Simple Endoplasmic Reticulum
	× 2. Species Endoplasmic Reticulum
	× 4. Similar Endoplasmic Reticulum
Q.61	A sum of money, on compound interest, amounts to ₹5,290 in 2 years and to ₹6,083.50 in 3 years. If interest is
Ans	compounded annually, then the rate of interest per annum is:
Alls	\times 1. $16\frac{2}{3}\%$
	✓ 2. 15%
	× 3. 14%
	× 4. 12%
Q.62	A 250 m long train running at a speed of 100 km/h crosses another train, coming from the opposite direction at a speed of 62 km/h, in 10 seconds. What is the length of the second train?
Ans	✓ 1. 200 m
	× 2. 240 m
	№ 3. 230 m
	№ 4. 270 m
Q.63	What is used to remove permanent hardness of water?
Ans	★ 1. Baking soda
	× 2. Bleaching powder
	★ 4. Sodium Hydroxide
Q.64	Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?
	GJF, ILH, KNJ, MPL, ?
Ans	X 1. ONR
	× 2. RNO
	X 3. RON
Q.65	Which of the following statements is correct about continuous movement of particles of matter?
Ans	1. If we decrease the temperature, kinetic energy of particles increases.
	Change in temperature has no effect on the kinetic energy of particles.
	✗ 3. If we increase the temperature, kinetic energy of particles decreases.
	✓ 4. If we increase the temperature, kinetic energy of particles increases. Join Telegram "HaryanaJobs.in"



Q.70	All 41 people are standing in a row, facing north. Juno is 23 rd from the right end, while Cherry is 31 st from the left end. How many people are there between Juno and Cherry?
Ans	✓ 1. 11
	× 2. 12
	× 3. 10
	× 4. 13
Q.71	Who among the following won the Purple cap in the 17 th Edition of Indian Premier League in 2024?
Ans	X 1. T Natarajan
	X 2. Jasprit Bumrah
	X 3. Kuldeep Yadav
	√ 4. Harshal Patel ———————————————————————————————————
Q.72	Thirteen years ago, Manorama's age was $\frac{2}{5}$ of that of her sister. The ratio of Manorama's and her sister's present ages is 3:4. What is the sum of their present ages?
Ans	X 1. 36 years
	× 3. 48 years
	× 4. 42 years
Q.73	If the mean of 22, 25, 27, 24 and x is 26, then the value of x is:
Ans	X 1. 35
	X 2. 28
	× 4. 41
Q.74	Which of the following statements is correct about suspension?
Ans	✓ 1. A Suspension is a heterogeneous mixture.
	× 2. Solids dispersed in gas are called suspensions.
	73. Particles of a suspension are invisible to the naked eye.
	× 4. A Suspension is a homogeneous mixture.
Q.75	Which of the following is NOT a pillar of strategic framework for achieving the objective of National State Policy 2024?
Ans	X 1. Technological Intervention
	✓ 2. Restriction on Private Sector Engagement
	X 3. Strong Professional Sports Governance, Implementation and Monitoring
	X 4. National Framework and Regulatory Bodies

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