

24th May 2023 (Shift - 3)

Q1. Match List - I with List - II

	List I (Vitamin)		List II (Deficiency Disease)
A.	Vitamin - A	(I)	Scurvy
B.	Vitamin - C	(II)	Rickets
C.	Vitamin - D	(III)	Non-clotting of blood
D.	Vitamin - K	(IV)	Colour blindness

Choose the most appropriate answer from the options given below:

- (a) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
 (b) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
 (c) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)
 (d) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

Q2. Find the missing term in given series: 1, 9, 25, 49, 81, ?, 169

- (a) 91 (b) 144
 (c) 121 (d) 64

Q3. Who is known as the Father of "Indian Space Program"?

- (a) Dr. C.V. Raman
 (b) Vikram Sarabhai
 (c) Subramanyan Chandrasekhar
 (d) Dr. A.P.J. Abdul Kalam

Q4. The area of four walls of a rectangular hall having length 18 m and height 8 m is 448 m^2 . What is the breadth of the hall (in m)?

- (a) 10 (b) 9
 (c) 8 (d) 7

Q5. Match List - I with List - II. List - I

	List I		List II
(A)	Bharatnatyam	(I)	Sonal Mansingh
(B)	Kathak	(II)	Lakshmi Narayan Shastri
(C)	Odissi	(III)	Krishna Iyer
(D)	Kuchipudi	(IV)	Sitara Devi

Choose the most appropriate answer from the options given below:

- (a) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
 (b) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
 (c) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
 (d) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Q6. If 1st January 2001 was Monday. Then which day of week was it on 31 December 2001?

- (a) Monday (b) Wednesday
 (c) Friday (d) Saturday

Q7. Here are some words translated from an artificial language

- hirpa nig means bat ball
 kirpa nig means foot ball
 kirpa nad means foot mark

Which word would mean "mark sheet"?

- (a) hirpa kirpa (b) nad tyan
 (c) hirpa nad (d) kirpa nad

Q8. Consider the following pairs:

- (A) International Women's Day - 08 March
 (B) World Earth Day - 22 March
 (C) International Labour Day - 01 May
 (D) International Yoga Day - 21 May
 (E) World Health Day - 07 April

Choose the most appropriate answer from the options given below:

- (a) (A), (B) and (D) only
 (b) (A), (C) and (E) only
 (c) (B) and (D) only
 (d) (A), (B), (D) and (E) only

Q9. The age of a tree can be calculated by

- (a) Measuring its height
 (b) Measuring the thickness of the trunk
 (c) Measuring the width of the tree
 (d) Measuring the number of annual rings

Q10. How many languages are presently scheduled in the Indian Constitution?

- (a) 14 (b) 21
 (c) 22 (d) 18

Q11. Match List - I with List - II.

	List I (Quantities)		List II (Units)
(A)	Force	(I)	Coulomb
(B)	Charge	(II)	Hertz
(C)	Heat	(III)	Newton
(D)	Frequency	(IV)	joule

Choose the most appropriate answer from the options given below:

- (a) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
 (b) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
 (c) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
 (d) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Q12. 64 solid iron spheres of radius r are melted to form a sphere of radius R . Find $R : r$.

- (a) 2:1 (b) 3:1
 (c) 8:1 (d) 4:1

Q13. One of the Harappan site known as Kalibangan is located in which state of India?

- (a) Rajasthan (b) Gujarat
 (c) Madhya Pradesh (d) Punjab

Q14. Which of the following fundamental right has been removed from our Constitution?

- (a) Right against exploitation
 (b) Right to Constitutional remedies
 (c) Right to Property
 (d) Right to freedom of religion

Q15. In the following question, select the related number pair from the given alternatives:

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15:256:: 18: ?

- (a) 360 (b) 361
(c) 261 (d) 461

Q16. Match List - I with List - II.

List I (Name of Sanctuaries)			List II (Locations)
(A)	Achanaknar	(I)	Jammu and Kashmir
(B)	Dachigam	(II)	Karnataka
(C)	Chandraphrappa	(III)	Uttar Pradesh
(D)	Bhadra	(IV)	Chattisgarh

Choose the most appropriate answer from the options:

- (a) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)
(b) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
(c) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
(d) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

Q17. Among A, B, C, D and E having a different amount of money, C has more money than only E, B and A. Who among them has the highest amount of money?

- (a) C (b) D
(c) E (d) A

Q18. Pratap starts from school and walk 7 km towards East. He takes left and walks 4 km then takes a right and walk 2 km. Again he takes a right and walks 3 km. Which direction is he facing now?

- (a) West (b) East
(c) North (d) South

Q19. For a certain period, simple interest on 1000 at 10% per annum is 100 more than that on 800. Find the period (in years).

- (a) 4 (b) 10
(c) 5 (d) 2

Q20. P, Q, R, S, T are sitting around a circular table and all are facing the centre of table. R is to the right of P and second of the left of S. T is not between P and S. Who is second to the left of R?

- (a) P (b) Q
(c) S (d) T

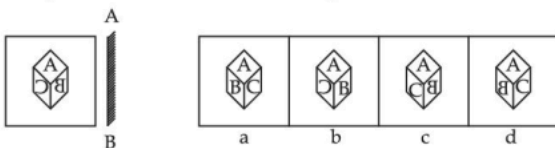
Q21. The largest Salt Water Lake in India is

- (a) Wular Lake (b) Chilika Lake
(c) Loktak Lake (d) Dal Lake

Q22. In the following question, if a mirror is placed on the line AB, then which of the answer figures is the correct image of the given figure?

Problem figure

Answers figures



- (a) a (b) b
(c) c (d) d

Q23. The sides of a triangle are in the ratio $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$. What is the length of the longest side?

- (a) 20 cm (b) 40 cm

- (c) 44 cm (d) 30 cm

Q24. Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): Leakages in house hold gas cylinders can be detected.

Reason (R): LPG has a strong smell.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both (A) and (R) are correct and (R) is the correct explanation of (A)
(b) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
(c) (A) is correct but (R) is not correct
(d) (A) is not correct but (R) is correct

Q25. Who has been awarded the Booker Prize 2022?

- (a) Annie Ernaux
(b) Mallika Sarabhai
(c) Arundhati Roy
(d) Shehan Karunatilaka

Q26. The digits and numbers from 1 to 12 represented by the dial of a clock are replaced by the letter of English alphabet. The replacement is started with the letter C. Find the letter which is represented by 9 O'clock. Consider hour hand only.

- (a) N (b) H
(c) J (d) K

Q27. By knowing the pH value of a liquid, we can find the:

- (a) density of the liquid
(b) viscosity of the liquid
(c) acidity of the liquid
(d) pressure of the liquid

Q28. The value of $\sqrt[4]{(625)^3}$ is:

- (a) 110 (b) 25
(c) 125 (d) 115

Q29. If arithmetic mean and geometric mean of roots of a quadratic equation are 8 and 5 respectively, then the quadratic equation is:

- (a) $x^2 + 8x + 5 = 0$ (b) $x^2 - 8x + 25 = 0$
(c) $x^2 - 16x + 25 = 0$ (d) $2x^2 - 8x + 25 = 0$

Q30. In $\triangle ABC$ with $AB = 5$ cm, $BC = 12$ cm, $AC = 13$ cm and $\angle B = 90^\circ$, which of the following is/are not correct?

- (A) $\tan C = \frac{12}{13}$ (B) $\operatorname{cosec} A = \frac{13}{12}$
(C) $\sin B = \frac{5}{13}$ (D) $\tan A = \frac{12}{15}$
(E) $\cos C = \frac{12}{13}$

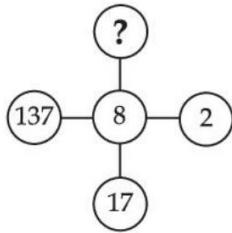
Choose the correct answer from the options given below:

- (a) (A), (B) and (C) only (b) (A) and (B) only
(c) (A), (C) and (D) only (d) (B), (C) and (D) only

Q31. A shop and a car were sold for ₹ 2,70,000 each. Due to increased scope of business, shop was sold at a profit of 20% but due to depreciation, car could be sold at a loss of 10%. How much profit or loss resulted in the entire transaction?

- (a) Loss ₹ 5,000 (b) Loss ₹ 10,000
(c) Profit ₹ 15,000 (d) Profit ₹ 15,480

Q32. Find the missing term



- (a) 9107 (b) 907
(c) 1097 (d) 97

Q33. A pair of dice is thrown. What is the probability of getting the sum of numbers on the two faces as prime number?

- (a) $\frac{7}{18}$ (b) $\frac{1}{6}$
(c) $\frac{1}{2}$ (d) $\frac{5}{12}$

Q34. Match List - I with List - II.

List I (Sobriquets)			List II (Names)	
(A)	Sorrow of Bengal	(I)	Udaipur	
(B)	Vennice of East	(II)	River kosi	
(C)	Sorrow of Bihar	(III)	Ahmedabad	
(D)	Bostan of India	(IV)	River Damodar	

Choose the most appropriate answer from the options given below:

- (a) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
(b) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)
(c) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
(d) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)

Q35. Statements:

- (I) All Forces are energies
(II) All energies are powers
(III) No power is heat

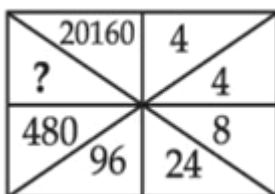
Conclusions:

- (I) Some forces are definitely not powers
(II) No heat is force

Which of the following conclusions can be definitely drawn from the statements given in the question.

- (a) If only (I) follows
(b) If only (II) follows
(c) If both (I) and (II) follows
(d) If neither (I) nor (II) follows

Q36. Find the missing term.



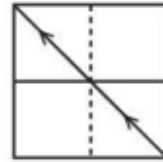
- (a) 1140 (b) 2880
(c) 3240 (d) 860

Q37. Who amongst the following was shocked by Chauri-Chaura incident which took place in Gorakhpur and withdrew Non-Cooperation movement on 5th Feb. 1922?

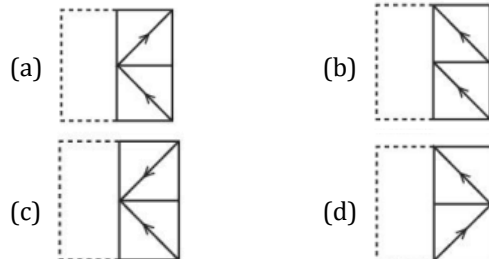
- (a) Mohandas Karamchand Gandhi
(b) Sardar Vallabhbhai Patel
(c) Motilal Nehru

(d) Lala Lajpat Rai

Q38.



After folding the above figure along the dotted line, which figure will be obtained:



Q39. A cuboidal slab of copper having dimensions 22 cm x 10 cm x 5 cm is melted and recasted in the form of a wire of 1 mm diameter. The wire is rubber coated at the rate of Rs. 150 per meter. Find the cost of rubber coating (in ₹) (Use $\pi = \frac{22}{7}$).

- (a) 525 (b) 650
(c) 2100 (d) 2600

Q40. Lift was invented by

- (a) Richard Gatling (b) E.G. Otis
(c) K.G. Jhonson (d) J.C. Perier

Q41. Match List - I with List - II.

List I (Alloys)			List II (Composition)	
(A)	Amalgum	(I)	Cu + Zn	
(B)	Brass	(II)	Pb + Sn	
(C)	Bronze	(III)	Cu + Sn	
(D)	Solder	(IV)	Metal + Hg	

Choose the most appropriate answer from the options given below:

- (a) (A) - (IV) (B)-(I), (C)-(III), (D) - (II)
(b) (A)-(III), (B)-(II), (C) - (I), (D) - (IV)
(c) (A)-(III), (B)-(I), (C) - (II), (D)-(IV)
(d) (A) - (IV) (B)-(III), (C) - (II), (D) - (I)

Q42. Find the coordinates of centroid of $\triangle ABC$ if the mid point of BC is D(2, 4) and vertex A is (2, -3).

- (a) (1, 0) (b) $(0, -\frac{2}{5})$
(c) (2, 5) (d) $(2, \frac{5}{3})$

Q43. Given below are two statements:

Statement (I): All natural numbers are rational numbers

Statement (II): 1 is the smallest prime number.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct
(b) Both Statement I and Statement II are incorrect
(c) Statement I is correct but Statement II is incorrect

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(d) Statement I is incorrect but Statement II is correct

- Q44.** A 110 m long train takes 3 seconds to pass a pole. How long is the platform if the train passes it in 15 seconds?
 (a) 440 m (b) 400 m
 (c) 550 m (d) 450 m

Q45. Match List - I with List - II.

List I (Boundary Lines)			List II (Countries Sharing borders)
(A)	38 th Parallel Line	(I)	Between U.S.A and Canada
(B)	Durand Line	(II)	Between India and China
(C)	MacMohan Line	(III)	Between North and South Korea
(D)	49 th Parallel Line	(IV)	Between India and Afghanistan

Choose the most appropriate answer from the options given below:

- (a) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
 (b) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
 (c) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
 (d) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- Q46.** The mean of scores obtained by 50 students is found to be 79.5. Later on, it was found that the score of one student was read as 94 in place of 49 and the score of another student was read as 69 in place of 89. Find the correct mean.
 (a) 85.52 (b) 79.35
 (c) 79 (d) 78
- Q47.** Find the wrong number in given series: 89, 78, 86, 80, 85, 82, 83.
 (a) 78 (b) 86
 (c) 82 (d) 83
- Q48.** Find how many triangles are there in the given figure?
- 
- (a) 12 (b) 11
 (c) 16 (d) 10
- Q49.** If the average weight of 10 students is 25 kg and that of other 10 students is 35 kg, then the average weight of these 20 students is:
 (a) 30 kg (b) 35 kg
 (c) 25 kg (d) 20 kg
- Q50.** A and B working together can do a work in 10 days. If A can do the work in 15 days, then how many days will B take to do the same work?
 (a) 40 (b) 30
 (c) 20 (d) 25
- Q51.** 44% of a number is 2288. What will be 87% of the number?
 (a) 3614 (b) 4524
 (c) 4815 (d) 3928

- Q52.** Rahul told Anand "Yesterday I defeated the only brother of the daughter of my grandmother". Whom did Rahul Defeated?
 (a) Son (b) Brother
 (c) Father-in-Law (d) Father

- Q53.** Correct the following equation by Interchanging the two signs:
 $4 \times 2 + 6 \div 2 - 12 = 2$
 (a) \div and \times (b) $+$ and $-$
 (c) \times and $+$ (d) \div and $-$





Q54. Match List - I with List - II. List - I

List I			List II
(A)	$14 - \frac{x-1}{10} = \frac{x+5}{6} - 3$	(I)	4
(B)	$(x-5)^2 - (x+3)^2 = 48$	(II)	$-\frac{23}{2}$
(C)	$6(x-4) = 4(x-3) - (3x-8)$	(III)	61
(D)	$(2x-1)(2x+3) = (2x-7)(2x+7)$	(IV)	-2

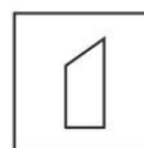
Choose the correct answer from the options given below:

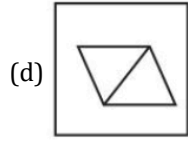
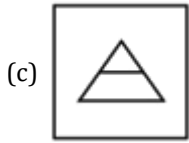
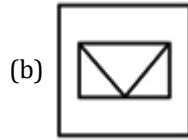
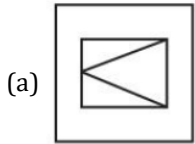
- (a) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
 (b) (A) - (II), (B) - (I), (C)-(III), (D)-(IV)
 (c) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
 (d) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- Q55.** The difference between two numbers P and Q ($P > Q$) is 40% of their sum. The ratio P : Q is:
 (a) 6:4 (b) 7:3
 (c) 8:5 (d) 5:4
- Q56.** The Central Rice Research Station is situated in
 (a) Raipur (b) Chennai
 (c) Bangalore (d) Cuttack
- Q57.** An interior angle of a regular polygon is 135° . The polygon is a/an:
 (a) hexagon (b) square
 (c) pentagon (d) octagon
- Q58.** Choose the most appropriate Mirror-Image of the figure.



- (a) 
- (b) 
- (c) 
- (d) 

- Q59.** Choose the alternative figure in which the problem figure is embedded?
 Problem figure





Q60. According to Indian literature who is known as father of Plastic Surgery?

- (a) Charka
- (c) Panini

- (b) Sushruta
- (d) Patanjali

