

Q1. Two numbers are in the ratio of 3: 5. If 9 is subtracted from each, the ratio becomes 12: 23. Find the greater number.

- (a) 55
- (b) 65
- (c) 57
- (d) 63

Q2. The simple interest on a sum of Rs 1550 for 2 yrs is Rs 20 more than the simple interest on Rs 1450 for the same duration (the rate of interest is the same in both the cases). Find the rate of interest.

- (a) 5%
- (b) 10%
- (c) 8%
- (d) 15%

Q3. Which among the following is the first satellite to be built by an Indian university, under the overall guidance of the Indian Space Research Organisation (ISRO)?

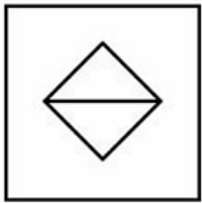
- (a) ANUSAT
- (b) PRATHAM
- (c) STUDSAT
- (d) SWAYAM

Q4. Who among the following won the Nobel Prize in 1968 for demonstrating how the nucleotides in nucleic acids control the synthesis of proteins?

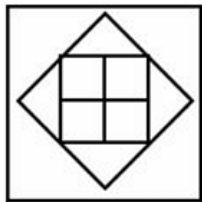
- (a) S. S. Abhyankar
- (b) Har Gobind Khorana
- (c) Homi Jehangir Bhabha
- (d) Subhramanyan Chandrasekhar

Q5. From the options given below, determine the answer figure in which the question figure is embedded.

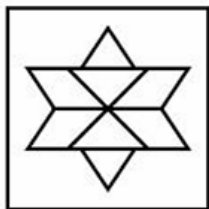
Question figure



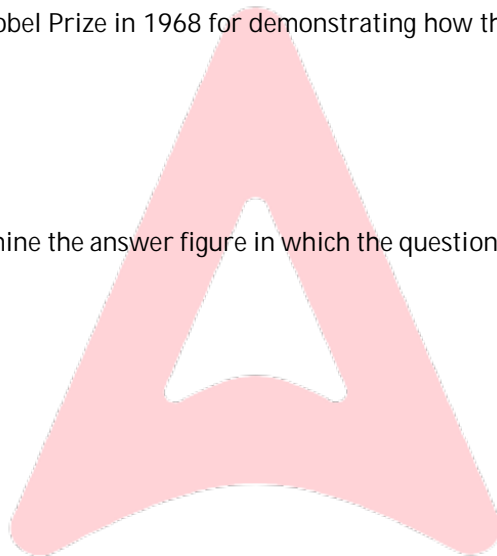
(a)

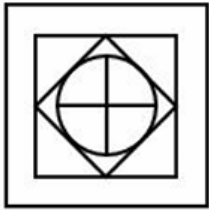


(b)

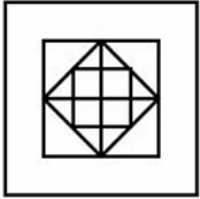


(c)





(d)



Q6. If the radius of a sphere is increased by 50%, find the percent increase in surface area.

- (a) 125%
- (b) 250%
- (c) 237.5%
- (d) 220%

Q7. A man traveled from the village to the post-office at the rate of 25 km/hr and walked back at the rate of 4 km/hr. If the whole journey took 5 hours 48 minutes, find the distance of the post-office from the village.

- (a) 20 km
- (b) 30 km
- (c) 50 km
- (d) 60 km

Q8. If 26 January 2023 was Thursday, then what day of the week was it on 26th January 2024?

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

Q9. In which of the following places do the two rivers named Bhagirathi and Alaknanda merge and take the name Ganga?

- (a) Prayagraj
- (b) Devprayag
- (c) Varanasi
- (d) Haridwar

Q10. Match List-I with List-II

List-I	List-II
Major religious developments in India	Period
(A) First Stupas	(I) Sixth Century BCE
(B) Jainism, Buddhism	(II) Second Century BCE onwards
(C) Later Vedic traditions	(III) Third Century BCE
(D) Vaishnavism, Shaivism	(IV) 1000-500 BCE

Choose the correct answer from the options given below:

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

List-I	List-II
(List of Biosphere Reserves in India)	(The Indian States in which the Biosphere Reserves are located)
(A) Dibru - Saikhowa	(I) Andhra Pradesh
(B) Dehang Debang	(II) Assam
(C) Seshachalam	(III) Meghalaya
(D) Nokrek	(IV) Arunachal Pradesh

Choose the correct answer from the options given below:

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

Q14. In which year was the erstwhile Mysore State renamed as Karnataka?

- (a) 1966
- (b) 1969
- (c) 1973
- (d) 1975

Q15. The perimeter of an isosceles triangle is 32 cm while its equal sides together measure 18 cm . Find the length of the other side

- (a) 9 cm
- (b) 14 cm
- (c) 8 cm
- (d) 7 cm

Q16. Lezim form of Dance is associated with which of the following State of India?

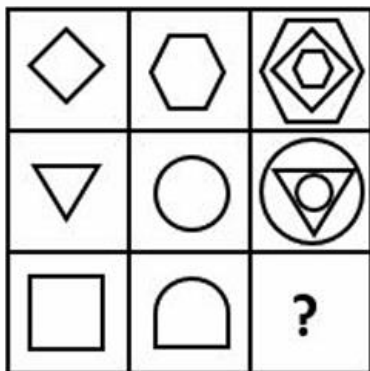
- (a) Maharashtra
- (b) Nagaland
- (c) Tamil Nadu
- (d) Telangana

Q17. Which one of the following is NOT an example of "Ex-Situ" biodiversity conservation efforts in India?

- (a) Zoo
- (b) Botanical Garden
- (c) Gene Bank
- (d) Wildlife Sanctuary

Q18. Find out the answer figure which completes the problem figure matrix.

Problem figure:



- (a)



(b)



(c)



(d)



Q19. Read the information given below carefully and answer the question that follows:

(A) The mean of 20 observations is 17. On checking, it was found that two observations were wrongly copied as 3 and 6. If the wrong observations are replaced by correct values 8 and 9, then the correct mean will be 16.4.

(B) The ratio of $4^{3.5} : 2^5$ is same as 4 : 1

(C) The ratio of 1.5 : 2.5 can also be written as 3 : 5

(D) If: $2A = 3B = 4C$, then, A : B : C is equal to 6 : 4 : 3

Choose the correct option:

(a) (A), (B), (C) and (D) are all correct

(b) (A) and (B) are incorrect but (C) and (D) are correct

(c) (A), (B), (C) and (D) are all incorrect

(d) (A) is incorrect but (B), (C) and (D) are correct

Q20. What should come next in the series below?

45G54, 47J57, 50N61, 54S66, ?

(a) 59D45

(b) 74Y72

(c) 59Y72

(d) 74D45

Q21. Who among the following has been awarded with the Sahitya Akademi Award 2024 for Punjabi?

(a) Gurdial Singh

(b) Pal Kaur

(c) Baldev Singh

(d) Nachhattar Singh

Q22. Who is the author of the book Modern India?

(a) Sekhar Bandyopadhyay

(b) Gyanendra Pandey

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- (c) Sumit Sarkar
(d) Ramsharan Sharma

Q23. The angle of elevation of the top of a building from the foot of the tower is 30° and the angle of elevation of the top of the tower from the foot of the building is 60° . If the tower is 50 m high, find the height of the building.

- (a) 10 m
(b) $20/3$ m
(c) $3.50/3$ m
(d) $40/3$ m

Q24. Match List-I with List-II

List-I	List-II
(A) ${}^{75}P_2 - {}^{75}C_2$	(I) 504
(B) ${}^5P_5 - {}^{10}C_3$	(II) 6
(C) ${}^{16}C_{13} - {}^8C_3$	(III) 2775
(D) ${}^nP_4 = 360$, then find n	(IV) 0

Choose the correct answer from the options given below:

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

Q25. A direction pole at a crossing indicates all the directions correctly. But due to wind, it turned in such a manner that now the North pointer is showing West. A traveler went in the wrong direction thinking that he was traveling South. In which direction did he actually travel?

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

Q26. In a certain code 'ARUN' is written as 'YPSL'. How would 'ALEX' be written in that code?

- (a) YNGZ
(b) YJCV
(c) YJSV
(d) CNGZ

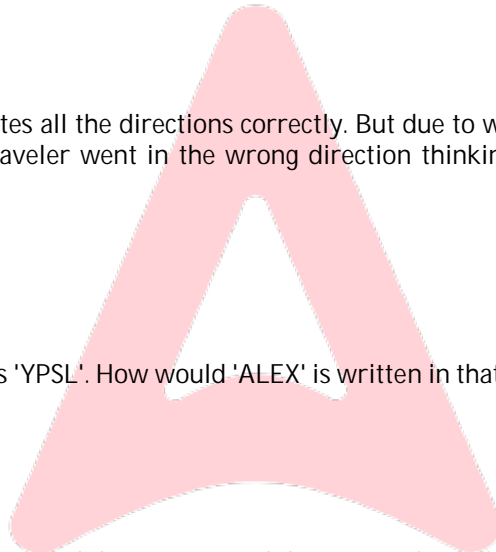
Q27. In an election contested by only two candidates, one candidate got 30% of the total votes cast and lost by 500 votes. Determine the total number of votes that were cast in the elections?

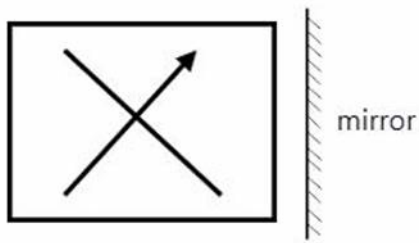
- (a) 1050
(b) 1150
(c) 1250
(d) 1300

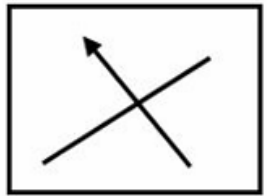
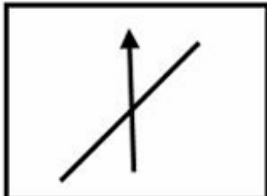
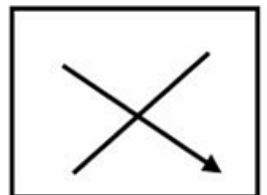
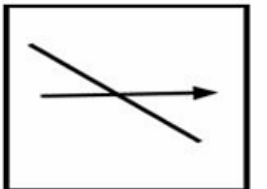
Q28. In a row of girls, if Rupa is Ninth from the left and Shikha is tenth from the right. On interchanging their positions, Rupa becomes sixteenth from the left. How many girls are there in the row?

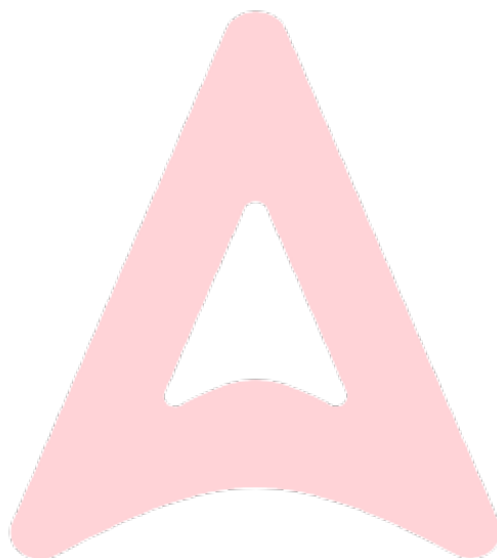
- (a) 23
(b) 30
(c) 25
(d) 20

Q29. Choose the mirror image of the given figure:





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



Q30. Tata Airlines was established in which year?

- (a) 1920
- (b) 1922
- (c) 1930
- (d) 1932

Q31. Five boys are sitting in a row. Rahul is not adjacent to Suresh or Abhishek. Arun is not adjacent to Suresh. Rahul is on the left-hand side of Mohan, adjacent to him. Mohan is in the middle of the row. Abhishek and Rahul have two people between them. Then match List-I with List-II

List-1	List-II
(A) How many boys are there to the right of Rahul?	(I) Three
(B) Who is to the immediate right of Mohan?	(II) Arun
(C) How many boys are there to the left of Abhishek?	(III) Four
(D) Who is at the extreme left end?	(IV) Suresh

Choose the correct answer from the options given below:

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

Q32. How much an angular distance will be covered by the minute hand of a correct clock in a period of 1 h 45 min?

- (a) 850°
- (b) 345°
- (c) 270°
- (d) 630°

Q33. Arrange the following dynasties of Vijaynagara in chronological order, beginning with the earliest to the most recent.

- (A) Aravidu
- (B) Saluvas
- (C) Sangama
- (D) Tuluvas

Choose the correct answer from the options given below:

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

Q34. Which among the following is NOT a factor affecting the distribution of temperature of ocean water?

- (a) Longitude
- (b) Latitude
- (c) Prevailing wind
- (d) Ocean currents

Q35. What is the slope of x - axis?

- (a) ∞
- (b) +1
- (c) 0
- (d) -1

Q36. Which of the following collections of letters will look the same in the water?

- (A) CHIOZKDX
- (B) EZKIXOED
- (C) DIOSHCX
- (D) KHEXCHD

Choose the correct answer from the options given below:

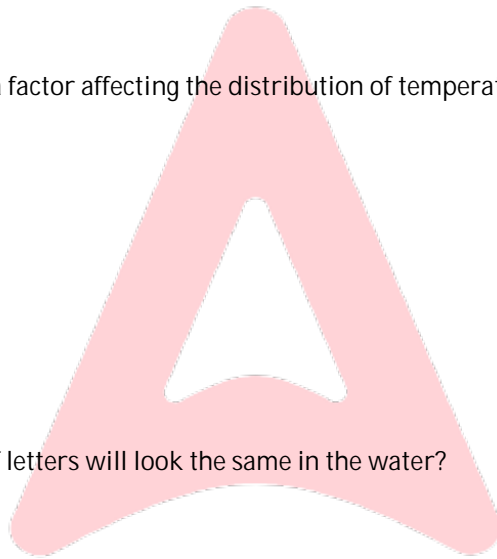
- (a) (D) only
- (b) (A), (B) and (D) only
- (c) (C) and (D) only
- (d) (B), (C) and (D) only

Q37. Which of the following list of numbers forms an arithmetic progression?

- (A) 1, -1, -3, -5,.....
- (B) -1.2, -3.2, -5.2, -7.2,
- (C) -2,2, -2,2, -2,.....
- (D) $2, \frac{5}{2}, 3, \frac{7}{2}, \dots$

Choose the correct answer from the options given below:

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



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Q38. Find the odd number from the alternatives given below:

- (a) 3207
- (b) 1308
- (c) 2605
- (d) 4026

Q39. Arrange the following historical events in chronological order, beginning with the earliest to the most recent.

- (A) First revenue settlement in the Bombay Deccan
- (B) The East India Company acquires Diwani of Bengali
- (C) Permanent Settlement in Bengal
- (D) Regulating Act passed by the British Parliament to regulate the activities of the East India Company

Choose the correct answer from the options given below:

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

Q40. Read the following Statements carefully and answer the question that follows:

Statement (I): Controlling Wages is a measure to control Inflation

Statement (II): Increasing Wages is a measure to control Inflation

Statement (III): Increasing rates of interest on Bank deposits is a measure to control Inflation

Statement (IV): Increasing spending on infrastructural development is a measure to control Supply side Inflation

Choose the correct option from the following:

- (a) Statements (I), (II), (III) and (IV) are all incorrect
- (b) Statements (I), (III) and (IV) are all correct but Statement (II) is incorrect
- (c) Statements (I) and (II) are both correct but Statements (III) and (IV) are both incorrect
- (d) Statements (I), (II), (III) and (IV) are all correct

Q41. 4 men and 6 women can complete a job in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women take to complete the same job?

- (a) 50 days
- (b) 45 days
- (c) 40 days
- (d) 35 days

Q42. The Government of India, through Indian Strategic Petroleum Reserve Limited (ISPRL) has set up Strategic Petroleum Reserves (SPR) at which of the following locations with a capacity of 5.33 MMT?

- (A) Padur
- (B) Digboi
- (C) Mangaluru
- (D) Visakhapatnam

Choose the correct answer from the options given below:

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

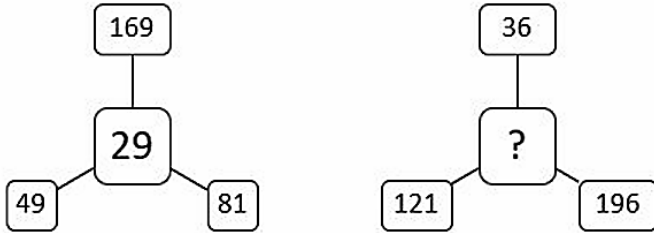
Q43. Match List-I with List-II

List-I	List-II
SI Unit	Electrical Parameters
(A) Volt	(I) Electric Charge
(B) Coulomb	(II) Resistance/Resistivity
(C) Ohm	(III) Electric Current
(D) Ampere	(IV) Electric Potential Difference

Choose the correct answer from the options given below:

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

Q44. Find the missing number in the following diagram:



- (a) 31
- (b) 25
- (c) 64
- (d) 156

Q45. Four people are chosen at random from a group of 3 men, 2 women and 4 children. The probability that exactly 2 of them are children is:

- (a) $\frac{10}{21}$
- (b) $\frac{1}{9}$
- (c) $\frac{1}{12}$
- (d) $\frac{1}{5}$

Q46. If x and y are negative integers, then which of the following statements is/are always true?

- (A) $x + y$ is positive integer.
- (B) xy is positive integer.
- (C) $x - y$ is positive integer.

Choose the correct answer from the options given below:

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

Q47. Which of the following elements is NOT Diatomic?

- (A) Chlorine
- (B) Argon
- (C) Sulphur
- (D) Helium

Choose the correct answer from the options given below:

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

Q48. The value of k , for which the system of equations $3x - ky - 20 = 0$, and $6x - 10y + 40 = 0$ has no solution, is:

- (a) 3
- (b) 4

- (c) 5
- (d) 10

Q49. Organisms which are multicellular eukaryotes without cell walls and are heterotroph are called_____?

- (a) Monera
- (b) Protista
- (c) Plantae
- (d) Animalia

Q50. The Union Territory of Ladakh does NOT share a land border with which of the following countries?

- (a) Nepal
- (b) Pakistan
- (c) China
- (d) Afghanistan

