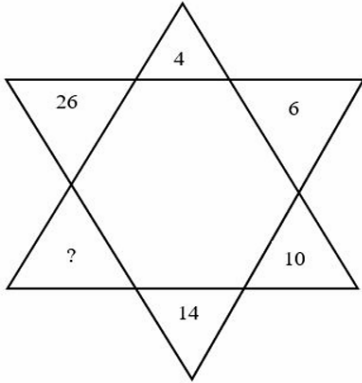


GAT Previous Year Paper

Q1. The system of equations  $4x + 14y = 18$  and  $6x + 21y = 33$  has

- (a) infinite solutions
- (b) a unique solution  $x = 1, y = 1$
- (c) a unique solution  $x = 2, y = 1$
- (d) no solution

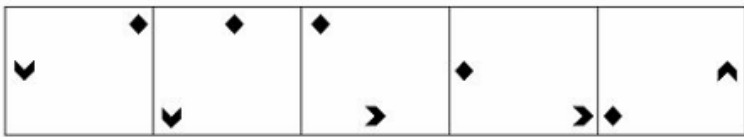
Q2. Find the missing number from the given alternatives.



- (a) 16
- (b) 18
- (c) 22
- (d) 20

Q3. Which one of the option figures should come after the problem figure, if the sequence were to be continued?

Problem Figure:



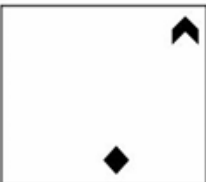
(a)



(b)



(c)



(d)



Q4. The shadow of the pole standing on a level surface is found to be 5 m shorter when the sun's elevation is  $60^\circ$  than when it is  $45^\circ$ . What is the height of the pole?

- (a)  $5(\sqrt{3} + 1)m$
- (b) 15 m
- (c)  $3(\sqrt{3} + 1)m$
- (d)  $\frac{5\sqrt{3}}{2}(\sqrt{3} + 1)m$

Q5. A and B are participating in the same contest; the probability of their winning are  $\frac{5}{9}$  and  $\frac{1}{4}$  respectively. What is the probability that neither of them will win the contest?

- (a).  $\frac{7}{36}$
- (b).  $\frac{31}{36}$
- (c).  $\frac{5}{36}$
- (d).  $\frac{1}{3}$

Q6. By selling a T-shirt on marked price of Rs. 650, a shopkeeper gains 25%. During a clearance sale, the shopkeeper allows a discount of 20% on the marked price. What is the overall profit/loss?

- (a) 1% profit
- (b) 1% loss
- (c) No profit, no loss
- (d) 2% profit

Q7. Which among the following amendments to the Constitution of India brought down the minimum age of voting from 21 to 18 years?

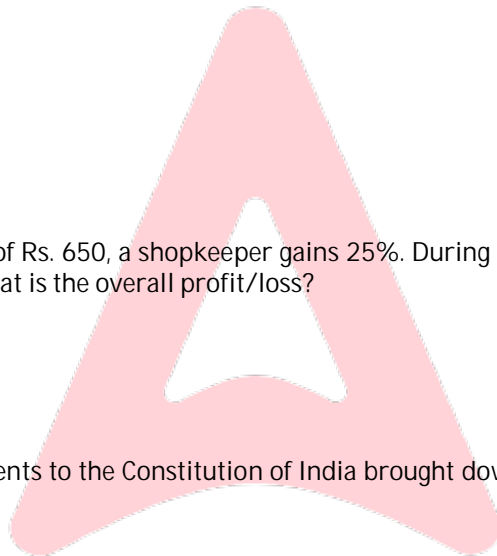
- (a) 15th Amendment
- (b) 52nd Amendment
- (c) 55th Amendment
- (d) 61st Amendment

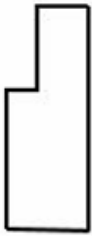
Q8. Select the parts from (A), (B), (C) and (D) which can fit into each other to form a complete square.

(A)



(B)





(C)



(D)



Choose the correct answer from the options given below:

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

Q9. In how many different ways can the letters of the word 'OFFICE' be arranged so that the vowels never come together?

- (a) 288
- (b) 216
- (c) 576
- (d) 192

Q10. P travels in his car and covers  $\frac{2}{5}$  part of his journey at a speed of 20 km/h,  $\frac{1}{8}$  part at 5 km/h and the remaining  $\frac{19}{40}$  part at 19 km/h. What is the average speed of the car during the entire journey?

- (a) 16 km/h
- (b) 14.3 km/h
- (c) 15.6 km/h
- (d) 13 km/h

Q11. The ratio of the radius and height of a cone is 3: 4. Its volume is  $37\frac{5}{7}$  cm<sup>3</sup>. The slant height of the cone is

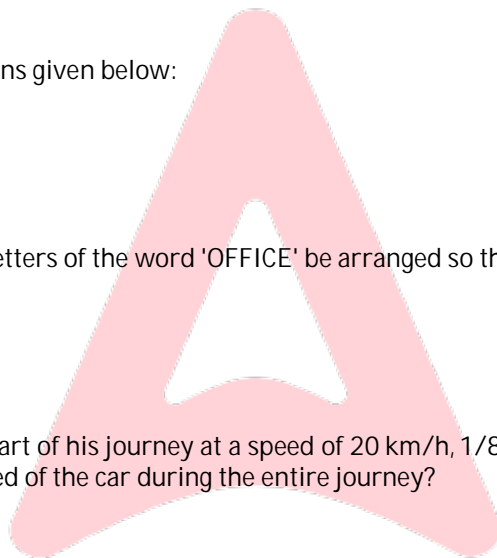
- (a) 13 cm
- (b) 10 cm
- (c) 5 cm
- (d) 6 cm

Q12. Which of the following elements are correctly matched with their symbols?

- (A) Iron - Fe
- (B) Potassium - K
- (C) Gold - Au
- (D) Copper - C

Choose the correct answer from the options given below:

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



Q13. Who among the following is known as the father of India's Green Revolution?

- (a) M. S. Swaminathan
- (b) Rajendra Singh Paroda
- (c) Gurcharan Singh Kalkat
- (d) R. K. Kohli

Q14. In the following question, four options are given, out of which three are alike in a particular way while one is different. Choose the odd one.

- (a) 161
- (b) 185
- (c) 253
- (d) 299

Q15. In a certain code, 'KNIFE' is written as 1114090605 . How would 'BREAD' be written in that code?

- (a) 0217050104
- (b) 0216050104
- (c) 0218050104
- (d) 0217050103

Q16. The median of a set of 11 distinct observations is 22.5. If each of the largest 5 observations of the set is increased by 5, then the median of the new set

- (a) is decreased by 5.
- (b) is increased by 5.
- (c) remains the same as that of the original set.
- (d) two times the original median.

Q17. Cells of cork contain a substance called:

- (a) Cutin
- (b) Lignin
- (c) Suberin
- (d) Cuticle

Q18. The Hawaii Volcanoes national park contains which of the following most active volcanoes in the world?

- (a) Kilauea
- (b) Stromboli
- (c) Mount Etna
- (d) Mount Yasur

Q19. Vivek said, "This boy is the husband of the only granddaughter of my father." How is Vivek related to the boy?

- (a) Father
- (b) Grandfather
- (c) Father-in-law
- (d) Uncle

Q20. Two numbers are in ratio 2:7 and their L.C.M. is 182. The greater number is

- (a) 141
- (b) 91
- (c) 126
- (d) 81

Q21. Find the next term in the alphanumeric series:

Z3, B8, F24, L48, T120, ?

- (a) D165
- (b) C143
- (c) D168
- (d) C168

Q22. If the points  $P(8,5)$ ,  $Q(4,8)$ ,  $R(0,5)$  and  $S(4, k)$  are the vertices of a rhombus, taken in order, then the value of  $k$  is

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

Q23. Which of the following is a ferrous mineral?

- (a) Bauxite
- (b) Iron ore
- (c) Limestone
- (d) Copper

Q24. Match List-I with List-II

List-I	List-II
Years	Historical Events
(A) 1801	(I) Nawab Wajid Ali Shah deposed: Awadh annexed
(B) 1856	(II) Rani Jhansi killed in battle
(C) 1857	(III) Subsidiary Alliance introduced by Wellesley in Awadh
(D) 1858	(IV) Mutiny starts in Meerut

Choose the correct answer from the options given below:

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

Q25. Consider the following statements

- (A) 141 is a prime number.
- (B) 2984234 is divisible by 11.
- (C) 39552 is divisible by 18.
- (D) The sum of the face values of 3 and 5 in 36251 is 8.

Choose the correct answer from the options given below:

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

Q26. Arrange the following cases in ascending order in terms of number of days to complete the same work.

- (A) P can do  $(1/3)^{\text{rd}}$  of the work in 5 days.
- (B) Q can do  $(1/6)^{\text{th}}$  of the work in 4 days.
- (C) R can do 25% of the work in 4 days.
- (D) S can do 35% of the work in 7 days.

Choose the correct answer from the options given below:

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

Q27. The 21<sup>st</sup> and 33<sup>rd</sup> terms of an arithmetic progression are 91 and 145 respectively. What is the 29th term?

- (a) 127
- (b) 130
- (c) 119
- (d) 124

Q28. Which among the following crops helps in restoring soil fertility by fixing nitrogen from the air?

- (a) Millets  
(b) Pulses  
(c) Sugarcane  
(d) Rajma

Q29. How much angular distance will be covered by the minute hand of the correct clock in a period of 3 h 25 min?

- (a)  $1080^\circ$   
(b)  $1230^\circ$   
(c)  $1130^\circ$   
(d)  $1180^\circ$

Q30. Which of the following is a satellite specifically for navigation?

- (a) GSAT-7A  
(b) GAGAN  
(c) GSAT-17  
(d) Chandrayaan-1

Q31. Maternal Mortality Rate in INDIA declined from 130/Lakh live births in 2014-16 to ..... in 2018-20.

- (a) 97/Lakh live births  
(b) 100/Lakh live births  
(c) 90/Lakh live births  
(d) 80/Lakh live births

Q32. If the interest is payable annually, then the principal amount on which the compound interest for 2 years at 5% per annum is Rs. 369, is given by

- (a) Rs. 3800  
(b) Rs. 3600  
(c) Rs. 4000  
(d) Rs. 4200

Q33. Match List-I with List-II

List-1	List-II
Winners of Nobel Prize 2024	Related fields
(A) John J. Hopfield, Geoffrey Hinton	(I) Physiology or Medicine
(B) David Baker, Demis Hassabis, John Jumper	(II) Literature
(C) Victor Ambros, Gary Ruvkun	(III) Chemistry
(D) Han Kang	(IV) Physics

Choose the correct answer from the options given below:

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

Q34. Which among the following was set up as an apex body to coordinate the activities of all institutions involved in the rural financing system?

- (a) Planning Commission  
(b) State Bank of India  
(c) Self-help groups  
(d) National Bank for Agriculture and Rural Development

Q35. The Hirakud Dam is built across which river?

- (a) Narmada  
(b) Krishna  
(c) Mahanadi  
(d) Godavari

GAT Previous Year Paper

Q36. Eight friends, A, H, I, K, M, N, S and T are sitting around a circle facing the center, but not necessarily in the same order. A is between H and K. N is not an immediate neighbor of H and I. T is an immediate neighbor of I and K. A is second to the left of S. Which of the following must be true?

- (A) M is seated second next to T.
- (B) K is seated opposite to I.
- (C) S is not seated next to N.
- (D) H is seated next to S.

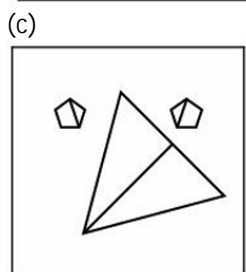
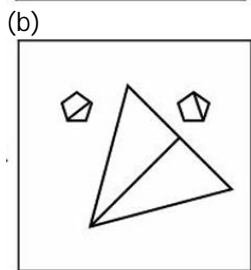
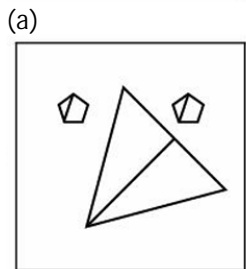
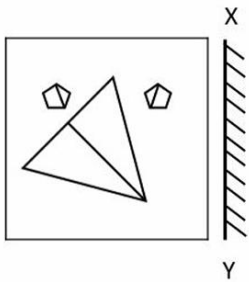
Choose the correct answer from the options given below:

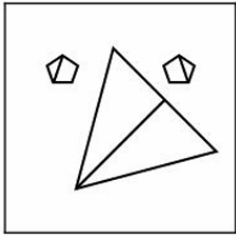
- (a) (A), (B) and (D) only
- (b) (A) and (D) only
- (c) (A), (B), (C) and (D)
- (d) (A) and (C) only

Q37. The Unit of Work done is Joule. 1 Joule = \_\_\_\_\_?









- (a) 1 Joule = 1 Newton × 1 Metre
- (b) 1 Joule = 1 Kilogram × 1 Metre
- (c) 1 Joule = 1 Newton × 1 Kilogram
- (d) 1 Joule = 1 Newton × 1 Second

Q38. Choose the correct mirror image from the answer figures when the mirror is placed on the line XY.





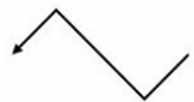
Q39. Which of the option figures completes the figure matrix given below?

		
		
		?

(a)



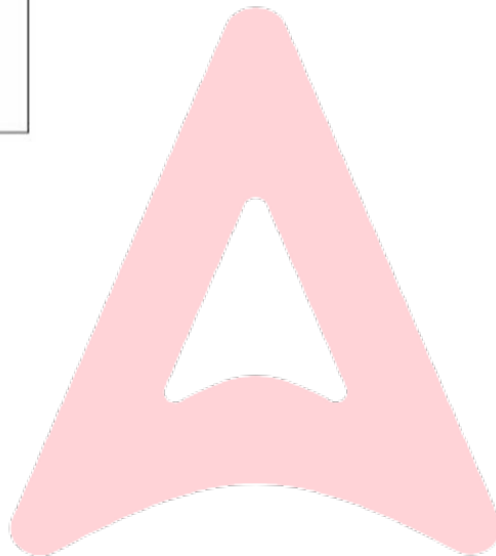
(b)



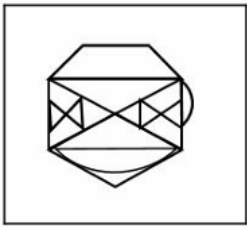
(c)



(d)

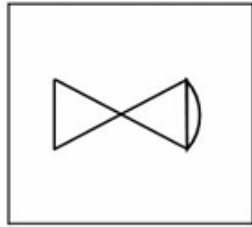


Q40. Choose from the options the most appropriate figure which is embedded in the pattern in the figure (X) given below:

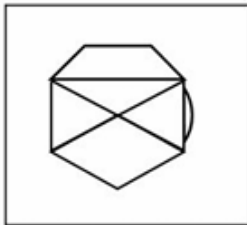


(X)

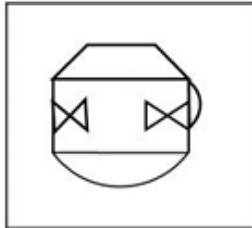
(a)



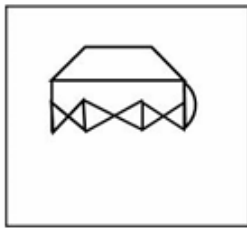
(b)



(c)



(d)



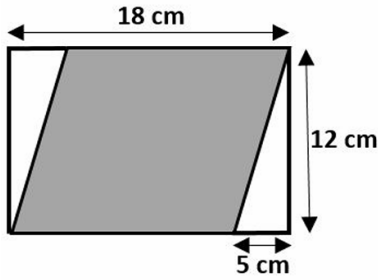
Q41. Arrange the following major periods in early Indian archeology in chronological order, beginning from the earliest to the most recent.

- (A) Chalcolithic
- (B) Early iron, megalithic burials
- (C) Harappan civilisation
- (D) Early Historic

Choose the correct answer from the options given below:

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

Q42. In the adjoining figure, a rectangle has dimensions of 18 cm × 12 cm. The area of the parallelogram (shaded portion) is



- (a) 166 cm<sup>2</sup>
- (b) 176 cm<sup>2</sup>
- (c) 156 cm<sup>2</sup>
- (d) 186 cm<sup>2</sup>

Q43. Who is the author of The Argumentative Indian: Writings on Indian History, Culture and Identity?

- (a) Bipin Chandra
- (b) Amartya Sen
- (c) Romila Thapar
- (d) Charu Gupta

Q44. In a row of 35 boys, when Raju was shifted to the left by five places, he became 17<sup>th</sup> from the right end. What was his earlier position from the left end of the row?

- (a) 23
- (b) 25
- (c) 12
- (d) 24

Q45. The Sagarmatha National Park is located in which country?

- (a) Nepal
- (b) Bangladesh
- (c) Sri Lanka
- (d) Bhutan

Q46. Which of the following states was known as the North-East Frontier Agency (NEFA) till 1972?

- (a) Nagaland
- (b) Arunachal Pradesh
- (c) Assam
- (d) Mizoram

Q47. Ankit walks 3 km towards the south, turns left and walks 6 km. Then he turns towards north and walks 5 km. Again he turns towards west, walks 4 km and stops for a while. Then he further walks 2 km. How far is he from his starting position?

- (a) 2 km
- (b) 4 km
- (c) 3 km
- (d) 5 km

Q48. Which of the following dance forms and their states are correctly matched?

- (A) Bharatnatyam - Tamil Nadu
- (B) Kathakali - Uttar Pradesh
- (C) Kuchipudi - Andhra Pradesh
- (D) Odissi - Odisha

Choose the correct answer from the options given below:

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

Q49. Arrange the following historical events in chronological order, beginning with the earliest to the most recent.

- (A) Establishment of the Bahmani Kingdom
- (B) Establishment of the Mughal Empire by Babur
- (C) Establishment of the Gajapati Kingdom of Odisha
- (D) Emergence of the Sultanate of Golconda

Choose the correct answer from the options given below:

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

Q50. If the 1<sup>st</sup> day of a leap year is Saturday, then what day lies on 4<sup>th</sup> March in that year?

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

