

Q1. If the height of a pole is $8\sqrt{3}$ meters and the length of its shadow is 8 meters, then the angle of elevation of the sun is;

- (a) 30°
- (b) 45°
- (c) 60°
- (d) 90°

Q2. Select the letter that can replace the question mark (?) in the following series.

A, E, I, ?, Q, U

- (a) O
- (b) M
- (c) K
- (d) N

Q3. The height of an equilateral triangle is $5\sqrt{3}$ cm, then its area is:

- (a) $100\sqrt{3} \text{ cm}^2$
- (b) $75\sqrt{3} \text{ cm}^2$
- (c) $50\sqrt{3} \text{ cm}^2$
- (d) $25\sqrt{3} \text{ cm}^2$

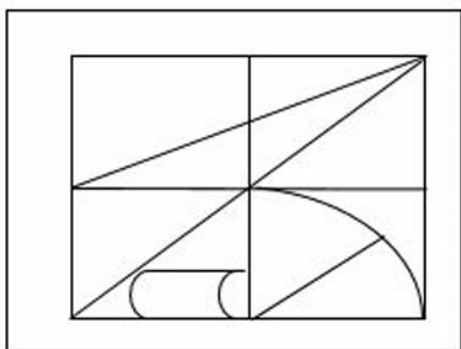
Q4. Identify the author of the book The Wonder that was India.

- (a) M.N.Srinivas
- (b) A.R.Desai
- (c) A.L.Basham
- (d) K.Damodaran

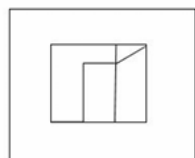
Q5. Five articles P,Q,R,S and T, are kept one above the other (not necessarily in the same order). P is just above T and just below S. Q is just above R and just below T. Which article is at the third position from the top?

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

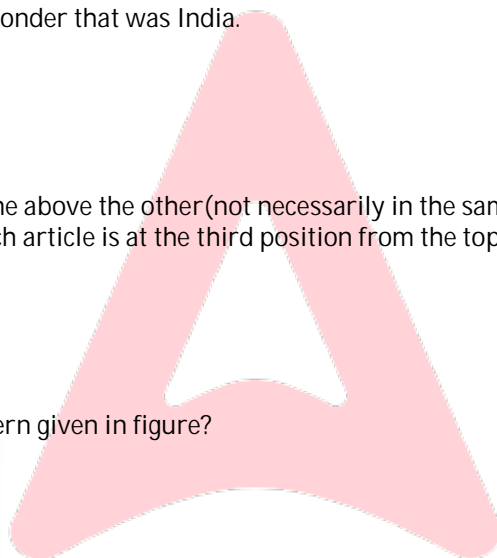
Q6. Which figure is embedded in the pattern given in figure?

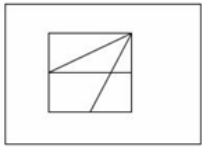


(a)

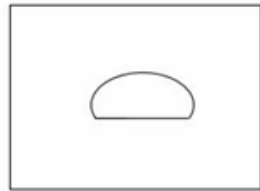


(b)





(c)



(d)



Q7. It has a broad base showing more young people and a tapering apex with less number of old people. Identify the type of population pyramid.

- (a) Expansive pyramid
- (b) Stationary pyramid
- (c) Constrictive pyramid
- (d) Stable pyramid

Q8. The median of the given data is:

7, 5, 2, 3, 6, 9, 1

- (a) 3
- (b) 5
- (c) 6
- (d) 5.5

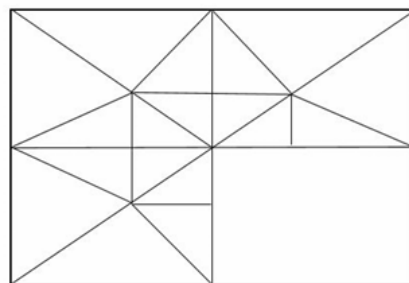
Q9. Find the values and arrange in increasing order:

- (A) If each edge of a cube is increased by 20%, then the percentage increase in its volume is:
- (B) If the radius of a cylinder is increased by 20%, while height increase 10%, then the percentage increase in the volume of the cylinder:
- (C) If each edge of a cube is increased by 20%, then the percentage increase in its surface area is:
- (D) If the radius of a sphere is increased by 10%, then the percentage increase in its volume is:

Choose the correct order:

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

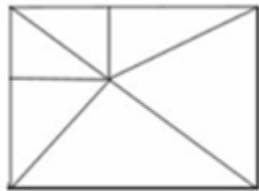
Q10. Which of the answer figures will complete the pattern given in the question figure?



(a)



(b)



(c)



(d)



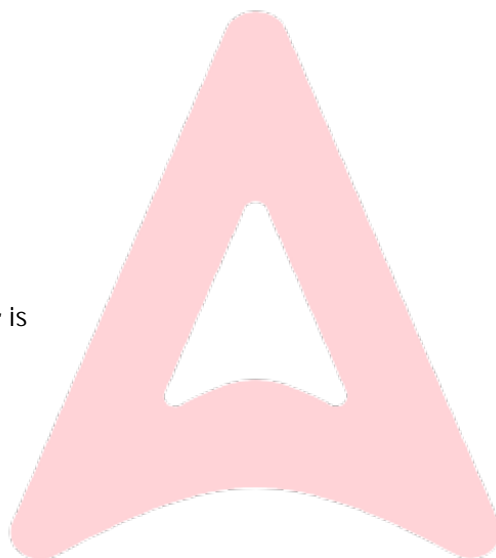
Q11. If $a : b :: \frac{12}{5} : \frac{3}{10}$ and $b : c :: \frac{7}{9} : \frac{12}{7}$ then $a : c$ is

(a) $\frac{98}{27}$

(b) $\frac{24}{25}$

(c) $\frac{27}{98}$

(d) $\frac{25}{24}$



Q12. Which year did Meghalaya become a full-fledged state, carved from the erstwhile state of Assam?

- (a) 1969
- (b) 1970
- (c) 1971
- (d) 1972

Q13. Read the information given below carefully and answer the question that follows:

- (A) Snow Leopard is the State Animal of Himachal Pradesh
- (B) Elephant is the State Animal of Jharkhand
- (C) Elephant is the State Animal of Karnataka
- (D) Snow Leopard is the State Animal of Nagaland

Choose the correct answer from the options given below:

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

GAT Previous Year Paper

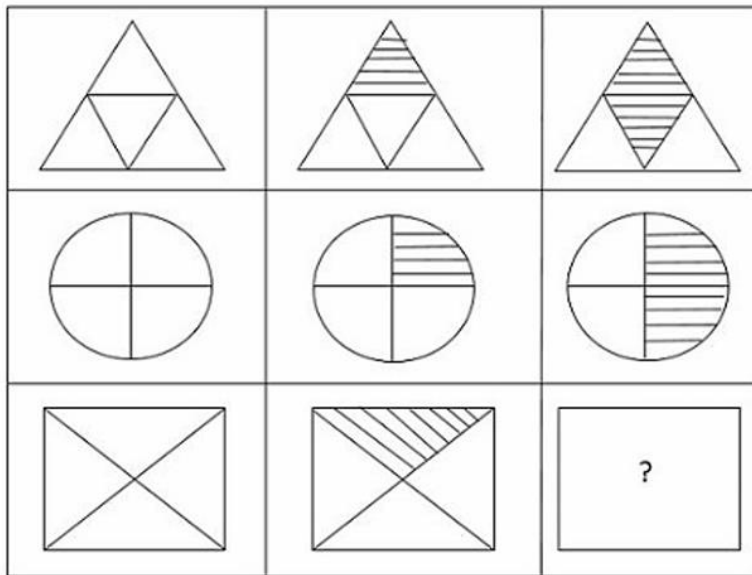
Q14. A cyclist covers a distance of 170 meters in 17 seconds. The time taken by the cyclist to cover the distance of 6 km, shall be how much?

- (a) 60 minutes
- (b) 30 minutes
- (c) 10 minutes
- (d) 20 minutes

Q15. Who is known as father of Indian medicine?

- (a) Charaka
- (b) Vagbhata
- (c) Vanbhata
- (d) Kumarbhritya

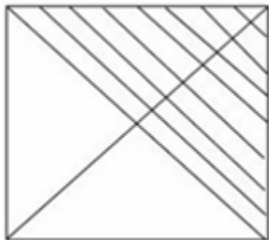
Q16. Find out which of the answer figures completes the figure matrix?



(a)



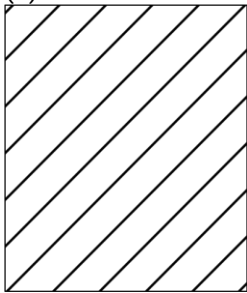
(b)



(c)



(d)



Q17. Among the following, who have all won Arjuna Awards for Outstanding Performance in Sports and Games 2024?

- (A) Ms. Jyothi Yarraji
- (B) Ms. Vantika Agrawal
- (C) Mr. Subhash Rana
- (D) Ms. Annu Rani

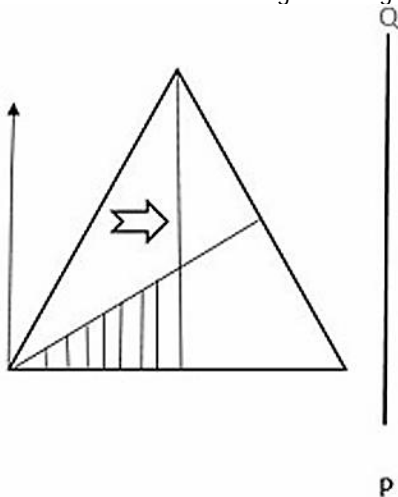
Choose the correct answer from the options given below:

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

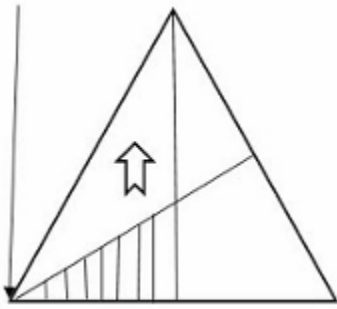
Q18. Which among the following is a Microsatellite that provides satellite-based Amateur Radio Services to India as well as the international community?

- (a) SARAL
- (b) SWAYAM
- (c) JUGNU
- (d) HAMSAT

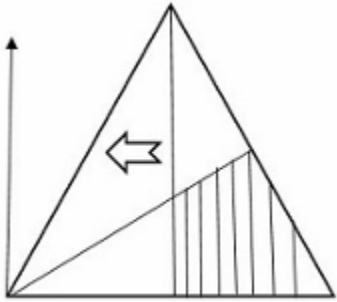
Q19. Select the mirror image of the given figure, if PQ is a mirror:



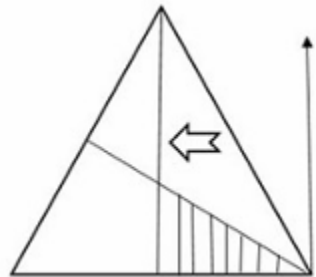
(a)



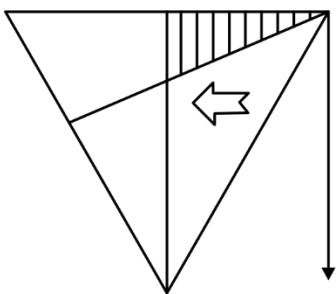
(b)



(c)



(d)



Q20. When a particular wire is bent into the shape of a square, then the area of the square turns out to be 81 cm^2 . When the same wire is bent into a circle, then the radius of the circle (correct to two decimal places) is

- (a) 2.86
- (b) 5.73
- (c) 11.46
- (d) 18

Q21. How many ways can a committee of 3 people be chosen out of 7 people?

- (a) 70

- (b) 35
(c) 210
(d) 840

Q22. If it was a Friday on 1 January 2016, what was the day of the week on 1 January 2017?

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

Q23. Match List-I with List-II

List-I	List-II
(A) 37.5% of 64	(I) 7
(B) 14% of 50	(II) 54
(C) 65% of 80	(III) 24
(D) 75% of 72	(IV) 52

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

Q24. Arrange the following historical events in chronological order, beginning with the earliest to the most recent.

- (A) Beginning of Gupta rule
(B) Rise of the Pallavas in Tamil Nadu
(C) The Arabs conquered Sind
(D) End of the Mauryan empire

Choose the correct answer from the options given below:

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

Q25. A boat covers 150 km downstream and 40 km upstream in 4 hours while it covers 70 km downstream and 24 km upstream in 2 hours. Determine the velocity of the current?

- (a) 10 km/hr
(b) 2.4 km/hr
(c) 3.5 km/hr
(d) $\frac{15 \text{ km}}{\text{hr}}$

Q26. The Second Battle of Tarain which happened in the year 1192 was fought between which of the following rulers?

- (a) Qutubuddin Aibak and Allauddin Khalji
(b) Ghiyasuddin Balban and Razia Sultan
(c) Prithviraj Chauhan and Muhammad Ghori
(d) Aurangzeb and Dara Shikoh

Q27. A can do a work in 4 days, B can do same work in 8 days, then the time taken by A and B to do the same work together is:

- (a) $\frac{8}{3}$ days
(b) $\frac{3}{8}$ days
(c) $\frac{9}{4}$ days
(d) 6 days

List-I	List-II
European trading companies established bases in India	Year and place
(A) Portuguese	(I) Madras in 1639
(B) Dutch	(II) Panaji in 1510
(C) French	(III) Masulipatnam in 1605
(D) British	(IV) Pondicherry in 1673

Choose the correct answer from the options given below:

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

Q29. The Sardar Sarovar Dam Project is located on which of the following River of India?

- (a) Periyar
- (b) Cauvery
- (c) Narmada
- (d) Tapi

Q30. Arrange the following landmarks in history in chronological order, beginning with the earliest to the most recent:

- (A) Reign of Jahangir
- (B) The diwani of Bengal transferred to the East India Company
- (C) Reign of Akbar
- (D) Humayun regained lost territories

Choose the correct answer from the options given below:

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

Q31. Unnati went straight towards east from her office and took a right turn after travelling 4 km. From here, she covered a distance of 4 km and again took a right turn. After covering a distance of 4 km, she finally turned left and traveled straight. In which direction was unnati moving at the end?

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

Q32. Sonam is 8 ranks ahead of Soniya who ranks twenty-sixth in a class of 45 . What is Sonam's rank from the last?

- (a) 27
- (b) 17
- (c) 29
- (d) 28

Q33. Which one out of the following countries approved a bill to enshrine abortion rights to women in its Constitution on March 4, 2024?

- (a) France
- (b) Germany
- (c) Switzerland
- (d) China

Q34. Which of the following statements correctly defines 'marketed surplus'?

- (a) The portion of agriculture produce which is sold in the market by the farmers
- (b) The value of all the agricultural goods sold in the market in one financial year
- (c) The portions of agriculture produce which is exported

(d) The monetary assistance given to the farmers by the government for production activities

Q35. Three of the following four pairs are alike in a certain way and one is different.

- (A) ZXUQL
- (B) NLHDC
- (C) SQNJE
- (D) PNKGB

Choose the same pattern pairs from the options given below:

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

Q36. In a family of 8 persons with two couples, P is the son of Q and brother of R. S is the daughter of M, who is married to R. T is the aunt of S and mother of V. R's nephew W is the son of P and has a sister V. How is V related to M?

- (a) Nephew
- (b) Daughter
- (c) Niece
- (d) Cousin

Q37. Ananyaa rolls an ordinary dice and gets the number 2 on the face of the dice. What shall be the square of the number that lies exactly opposite on the dice to the number that Ananyaa got on the face of the dice?

- (a) 25
- (b) 9
- (c) 1
- (d) 16

Q38. Identify the Odd One Out:

- (a) Mount Everest
- (b) Chomolungma
- (c) Kamet
- (d) Sagarmatha

Q39. Select the term that will come next in the following series.

FBA, IGE, LLI, OQM, ?

- (a) RUP
- (b) QVQ
- (c) RVQ
- (d) RVP

Q40. In arithmetic progression(A.P.), the first term is 7 and the 6th term is 22 . The sum of the first 10 terms of A.P. is:

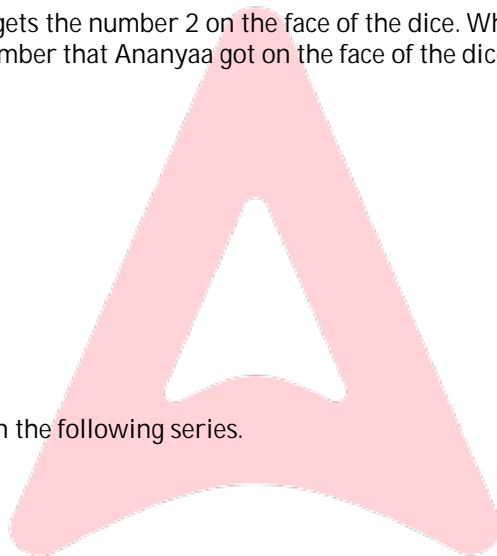
- (a) 215
- (b) 205
- (c) 410
- (d) 200

Q41. Black or dark gray shapeless masses of thick vapor, formed at middle levels or very near to the surface of the earth that are extremely dense and opaque to the rays of the sun are called _____?

- (a) Stratus clouds
- (b) Nimbus clouds
- (c) Cirrus clouds
- (d) Cumulus clouds

Q42. Which among the following states of India does not share its border with Bhutan?

- (a) Sikkim
- (b) West Bengal
- (c) Tripura



(d) Arunachal Pradesh

Q43. Which of the following statements is correct for the First Past the Post system of election?

- (a) More than one representative may be elected from one constituency.
- (b) Voter votes for the party.
- (c) Every party gets seats in proportion to the percentage of votes that it gets.
- (d) Candidate who wins the election may not get a majority (50% + 1) votes.

Q44. Which of the following is a Tamil poetry written by Ilango Adigal?

- (a) Samaveda
- (b) Silappadikaram
- (c) Gita Govinda
- (d) Ramcharitamanas

Q45. Two unbiased coins are tossed. The probability of getting at least one head is:

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

Q46. What will be the angle between the hands of the clock at 8:30?

- (a) 90°
- (b) 75°
- (c) 105°
- (d) 60°

Q47. In a certain code language, 'JAN' is written as ' 25 ', 'WED' is written as ' 32 '. What is the code for 'MON' in that code language?

- (a) 39
- (b) 42
- (c) 41
- (d) 40

Q48. The sum of first 10 prime numbers is :

- (a) 119
- (b) 141
- (c) 100
- (d) 129

Q49. In how many years will a sum of money double itself at 12.5% p.a., at simple interest?

- (a) 10 years
- (b) 4 years
- (c) 6 years
- (d) 8 years

Q50. Match List-I with List-II

List-I	List-II
Nuclear Power Projects	States where they located
(A) Tarapur	(I) Tamil Nadu
(B) Kalpakkam	(II) Uttar Pradesh
(C) Kakrapar	(III) Maharashtra
(D) Narora	(IV) Gujarat

Choose the correct answer from the options given below:

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

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

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

