

DE Shaw mock-1

Q1. 139 members participated in a game. After each match, a team gets eliminated. What is the number of matches to be held to find the champion?

- (a) 138 (b) 139 (c) 140 (d) 145

Q2. A typist can type a matter in 2 hours, while another typist takes 3 hours to complete the task. If they work together they will take how much time to finish the work?

- (a) 1 hr 5 min (b) 1 hr 12 min (c) 1 hr 30 min (d) 1 hr 35 min

Q3. Two friends A and B simultaneously start running around a circular track. They run in the same direction. A travels at 6 m/s and B runs at b m/s. If they cross each other at exactly two points on the circular track and b is a natural number less than 30, how many values can b take?

- (a) 3 (b) 4 (c) 7 (d) 5

Q4. How many squares are there on an 8×8 chess board?

- (a) 64 (b) 128 (c) 204 (d) None of these

Q5. Find the next term in the given series: 12, 6, 6, 9, 18, ?

- (a) 36 (b) 45 (c) 54 (d) 72

Q6. Two students appeared for an examination. The difference between their marks was 9. The one who secured the more marks had 56% of the total mark. Find their marks?

- (a) 42 & 33 (b) 32 & 48 (c) 36 & 45 (d) None of these

Q7. What is the least number which, when divided by 5, 6, 7, 8 gives the remainder 3 but is divisible by 9?

- (a) 1463 (b) 1573 (c) 1683 (d) 1793

Q8. A merchant can buy goods at the rate of Rs. 20 per good. The particular good is part of an overall collection and the value is linked to the number of items that are already on the market. So, the merchant sells the first good for Rs. 2, second one for Rs. 4, third for Rs. 6...and so on. If he wants to make an overall profit of at least 40%, what is the minimum number of goods he should sell?

- (a) 24 (b) 18 (c) 27 (d) 32

Q9. The HCF and LCM of two numbers are 12 and 924 respectively. Then the number of such pairs is

- (a) 0 (b) 1 (c) 2 (d) 3

Q10. Three numbers are in the ratio 3:4:5. The sum of the largest and the smallest equals the sum of the second and 52. The smallest number is:

- (a) 20 (b) 27 (c) 39 (d) 52

Q11. If the radius of a circle is increased by 50%, its area is increased by

- (a) 125% (b) 100% (c) 75% (d) 50%

Q12. A and B working separately can do a piece of work in 9 and 12 days respectively. If they work for a day alternately with A beginning, the work would be completed in

- (a) 10 (2/3) days (b) 10 (1/2) days (c) 10 (1/4) days (d) 10 (1/3) days

Q13. K is a place which is located 2 km away in the north-west direction from the capital P. R is another place that is located 2 km away in the south-west direction from K. M is another place and that is located 2 km away in the north-west direction from R. T is yet another place that is located 2 km away in the south-west direction from M. In which direction is T located in relation to P?

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

Q14. In a family, the average age of a father and a mother is 35 years. The average age of the father, mother and their only son is 27 years. What is the age of the son?

- (a) 12 years (b) 11 years (c) 10.5 years (d) 10 years

Q15. If 5 men or 7 women can earn Rs. 5,250 per day, how much would 7 men and 13 women earn per day?

- (a) Rs. 11,600 (b) Rs. 11,700 (c) Rs. 16,100 (d) Rs. 17,100

Q16. If A and B together can complete a piece of work in 15 days and B alone in 20 days, in how many days can A alone complete the work?

- (a) 60 (b) 45 (c) 40 (d) 30

Q17. By walking at 3/4 of his usual speed, a man reaches his office 20 minutes later than his usual time. The usual time taken by him to reach his office is:

- (a) 75 minute (b) 60 minutes (c) 40 minutes (d) 30 minutes

Q18. Little wooden cubes each with a side of one inch are put together to form a solid cube with a side of three inches. This big cube is then painted red all over on the outside.

When the big cube is broken up into the original little ones, how many cubes will have paint on two sides?

- (a) 4 (b) 8 (c) 12 (d) 0

Q19. A can do a piece of work in 10 days, and B can do the same work in 20 days. With the help of C, they finished the work in 4 days. C can do the work in how many days, working alone?

- (a) 5 days (b) 10 days (c) 15 days (d) 20 days (e) 25 days

Q20. Class B has 50% more students than class A. Number of girls in class A is equal to number of boys in class B. The percentage of girls is the same in both classes. What percentage of the student group are boys?

- (a) 33.33% (b) 40% (c) 50% (d) None of these

Answer key

1	A	5	B	9	C	13	C	17	B
2	B	6	A	10	C	14	B	18	C
3	A	7	C	11	A	15	D	19	B
4	C	8	C	12	C	16	A	20	B