

DXC technology mock-1

Q1. Article A was sold at 20% profit and Article B was sold at 60% profit. The selling price of Article B was 150% more than that of Article A. Cost price of Article B is what percent more than that of Article A?

- (a) 87.5 % (b) 86.5% (c) 23.55 (d) None of these

Q2. How many pairs of integers (x, y) exist such that the product of x, y and HCF (x, y) = 1080?

- (a) 8 (b) 7 (c) 9 (d) 12

Q3. A prime number p greater than 100 leaves a remainder q on division by 28. How many values can q take?

- (a) 8 (b) 9 (c) 12 (d) 15

Q4. The difference between the compound interest and the simple interest on a certain sum at 12% p.a. for two years is Rs.90. What will be the value of the amount at the end of 3 years?

- (a) 9000 (b) 6250 (c) 8530.80 (d) 8780.80

Q5. Two persons A and B start moving at each other from point P and Q respectively which are 1400 Km apart. Speed of A is 50 Km/hr and that of B is 20 Km/hr. How far is A from Q when he meets B for the 2nd time?

- (a) 400 km (b) 800 km (c) 1200 km (d) 1400 km

Q6. Shyam will complete work in 20 days. If Ram is 25% more efficient than Shyam, then how many days he will take to complete the work?

- A. 14 B. 16 C. 18 D. 20

Q7. Two numbers are in the ratio of 5:11. If their HCF is 7, find the numbers.

- A. 35, 77 B. 44, 66 C. 35, 55 D. 54, 44

Q8. When a number is successively divided by 2, 3, 7, we get 1, 2, 3 as the remainder respectively. What is the smallest such number ?

- A. 64 B. 65 C. 70 D. 75

Q9. A 2% error in excess is found while measuring the side of a square. So, find the percentage of error in the calculated area of the square.

- A. 4.04% B. 2.30% C. 1.03% D. 3%

Q10. What is value of $945.341 - 1042.792 + 875.435 + 31.025$?

- A. 810.008 B. 809.009 C. 795.659 D. 809.009

Q11. A person buys a pen from a wholesaler at Rs. 10 for 20 pens. He sells those pens at Rs. 10 for 15 pens. Find his profit or loss percent.

- A. 0.33334 B. 0.23344 C. 0.4234 D. 0.5434

Q12. Walking at the rate of 4 kmph a man cover certain distance in 2 hr 45 min. Running at a speed of 16.5 kmph the man will cover the same distance in.

- A. 20 B. 30 C. 40 D. 60

Q13. 25 % of a number is 8 less than one third of that number. Find the number.

- A. 98 B. 96 C. 94 D. 100

Q14. The Compound Interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period(in years) is :

- A. 1 B. 2 C. 3 D. 4

Q15. Average age of 7 family members is 75 years. But average age of 6 of them is 74 years 6 months. What is the age of the 7th family member?

- A. 75 B. 78 C. 79 D. 80

Q16. Arrange the following in ascending order:

$\frac{2}{15}$, $\frac{18}{29}$, $\frac{7}{18}$, $\frac{10}{87}$.

- A. $\frac{7}{18} < \frac{2}{15} < \frac{18}{29} < \frac{10}{87}$ B. $\frac{10}{87} < \frac{7}{18} < \frac{2}{15} < \frac{18}{29}$

- C. $\frac{10}{87} < \frac{2}{15} < \frac{7}{18} < \frac{18}{29}$ D. $\frac{18}{29} < \frac{10}{87} < \frac{2}{15} < \frac{7}{18}$

Q17. Find the L.C.M. of $2^6 * 3^2 * 5 * 7$, $2^3 * 3^5 * 7$ and $2 * 3^4 * 5$.

- A. $2^6 * 3^5 * 7$ B. $2^6 * 3^5 * 5 * 7$ C. $2^6 * 3^5 * 5$ D. $2^6 * 3^5$

Q18. The value of $\log_8(1/4096)$ is

- A. -5 B. -2 C. -4 D. -3

Q19. If the G.C.D. of $x^2 - (p - 1)$ and $x^2 - px + (p - 1)$ is $(x - 1)$, then the value of p is

- A. -2 B. 2 C. -1 D. 1

Q20. A bag contains coins of Re. 1, Rs. 2 and Rs. 5 in the ratio of 4:8:5. The total amount in the bag is Rs. 90. The total number of Rs. 5 coins is:

- A. 8 B. 10 C. 15 D. 16

Q21. If LCM and HCF of two numbers are 234 and 13 respectively, then the smallest factor of the product of the two numbers is:

- A. 2 B. 3 C. 4 D. 5

Q22. A restaurant prepares 22 litres of a mixture that contains 25% of orange essence and the remaining quantity as water. If 3 litres of a water is mixed in this mixture, what will be the percentage of orange essence in the new mixture?

- A. 34% B. 4% C. 12% D. 22%

Q23. Shalom offered to sell his ancestral house for Rs. 18,400. If he had charged 10% less, he would have made a profit of 20%. What is the actual cost of the house?

- A. Rs.15,800 B. Rs.14,500 C. Rs.13,800 D. Rs.12,500

Q24. Parul is one-fifth the age of her mother was 15 years ago and Parul's brother is three-fifth the age his mother was 10 years ago. If the sum of Parul and her brother's ages is 31, then how old is Parul's mother?

- A.50 B.40 C.35 D.60

Q25. Write $\sqrt{1008}$ as a mixed surd.

- A. $12\sqrt{7}$ B. $7\sqrt{14}$ C. $7\sqrt{12}$ D. $14\sqrt{7}$

Q26. A company makes a mixture which contains 2% alcohol. If 10 litres of alcohol is added to the mixture, then the concentration increases to 5%. What is the approx. quantity of the mixture?

- A. 316 B. 315 C. 320 D. 300

Q27. 20 men can do a job in 10 days, working 8 hours a day. If women are 33.33% more efficient than men, how many women will it take to finish the same job in 10 days, working 6 hours a day?

- A.10 B.12 C.15 D.16

Q28. Find the ratio of distances covered by a car and a cyclist when it is given that the car moves for 1.5 hours at 30 kmph and the cyclist moves for 1 hour at 25 kmph?

- A. 6 : 5 B. 9 : 5 C. 3 : 2 D. 5 : 1

Q29. A written exam consists of 6 questions with the answer options as yes/ no/ none. In how many ways can the examinees select the answers?

- A. 6P_3 ways B. 6C_3 ways C. ${}^3C_1, {}^3C_1, {}^3C_1, {}^3C_1, {}^3C_1$ D. $({}^3C_1)^6$

Q30. The light from a laser beam travels at a speed of 3,00,000,000 meters per second. How far can it be seen within 20 nano seconds, assuming that there is no obstruction in between? (20 nano seconds = 20×10^{-9} seconds)

- A. 3 m B. 20 m C. 6 m D. 0.6 m

Q31. Supremo Coal Limited mined $8\frac{1}{3}$ tons of coal on Tuesday, $5\frac{3}{4}$ tons of coal on Monday and $9\frac{1}{2}$ tons of coal on Wednesday. If the goal is to mine 30 tons of coal this week then how many more tons of coal need to be mined?

A. 23.59 tons B. 7.56 tons C. 6.89 tons D. 6.41 tons

Q32. The sum of the squares of 3 numbers is 170, while the sum of their products taken two at a time is 157. What is the sum of the numbers?

A. 20 B. 22 C. 24 D. 28

Q33. The tremors of the earthquake were felt at intervals of 15 seconds. The first tremor was felt at 08:54:57 am and the last tremor was felt at 10:45:112 am. How many times were the tremors felt?

A. 484 B. 485 C. 441 D. 525

Q34. A flower seller purchases roses at Rs. 96 a dozen and sells them at Rs. 10 per flower. What is profit percent of the flower seller?

A. 0.4 B. 0.2 C. 0.25 D. 0.15

Q35. A train travelling at 250 kmph overtakes a cyclist who is travelling at 10 kmph in 45 seconds. What is the length of the train in meter?

A. 3,000 m B. 5,400 m C. 6,000 m D. 10,800 m

Q36. If north is called north-east, north-east is called east, east is called south-east and so on. What will south-east be called?

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

Q37. Q3) Problem question:

Sushil, a salesperson, was asked by his Sales Manager to meet one of their high profile clients. Due to his ill health, the sales manager was unable to take updates from Sushil about the meeting. Sushil's phone was also switched off. On which day did Sushil meet the client?

Statements:

(i). Ravi, one of the sales Manager's colleague, tells him Sushil did not visit the client either on Thursday or on Tuesday.

(ii). Vikash, one of the sales manager's colleague, tells him that Sushil visited the client 2 days before Ravi contacted the client which was the day after Monday.

A. Either of the statement is sufficient in answering the question.

B. Statement I alone is sufficient in answering the question.

C. Statement II alone is sufficient in answering the question.

D. Both the statements put together are sufficient in answering the question.

E. Both the statements even put together are not sufficient in answering the question.

Q38. Find the next number in the series:

3, 11, 25, 45,....

A. 75 B. 71 C. 65 D. 61

Q39. Find the suitable option for the given relation:

Building : Bricks :: Flower :

A. Petals B. Seed C. Fruit D. Honey

Q40. Anand introduces Geeta as the wife the grandson of his mother. How is Anand related to Geeta?

A. Father-in law B. Brother-in-law C. Uncle D. Grandfather

Answer keys

1	A	9	A	17	B	25	A	33	C
2	C	10	D	18	C	26	A	34	C
3	C	11	A	19	B	27	D	35	A
4	D	12	C	20	B	28	B	36	B
5	C	13	B	21	A	29	D	37	C
6	B	14	B	22	D	30	C	38	B
7	A	15	B	23	C	31	D	39	A
8	B	16	C	24	A	32	B	40	A