

DXC Technology Mock-2

- 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) 23.5% (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 22nd time?
- (a) 1000 km (b) 800 km (c) 400 km (d) 1400 km
- Q6. Out of 17 applicants, there are 8 boys and 9 girls. Two persons are to be selected for the job. Find the probability that at least one of the selected persons will be a girl.
- (a) 25/34 (b) 19/34 (c) 21/34 (d) 27/34
- Q7. Traders A and B buy two goods for Rs. 1000 and Rs. 2000 respectively. Trader A marks his goods up by x%, while trader B marks his goods up by 2x% and offers a discount of x%. If both make the same non-zero profit, find x
- (a) 25% (b) 12.5% (c) 37.5% (d) 40%
- Q8. Find the length of the longest pole that can be placed in a room 12 m long, 8m broad and 9 m high.
- (a) 16 m (b) 17 m (c) 18 m (d) 19 m
- Q9. 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
- Q10. 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
- Q11. 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

Q12. 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

Q13. 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%

Q14. 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

Q15. 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

Q16. 25 % of a number is 8 less than one third of that number. Find the number.

- (a) 98 (b) 96 (c) 94 (d) 100

Q17. 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

Q18. 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) 15 (b) 10 (c) 8 (d) 16

Q19. 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) $\frac{18}{29} < \frac{10}{87} < \frac{2}{15} < \frac{7}{18}$

Q20. The number of number pairs lying between 40 and 100 with their HCF as 15 is:

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

Q21. In a family, each daughter has the same number of brothers as she has sisters and each son has twice as many sisters as he has brothers. How many sons are there in the family ?

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

Q22. The total number of digits used in numbering the pages of a book having 366 pages is

- (a) 732 (b) 990 (c) 1098 (d) 1305

Q23. 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

Q24. 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%

Q25. 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

Q26. 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

Q27. 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

Q28. 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) 20

Q29. 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

Q30. The price of commodity X increases by 40 paise every year, while the price of commodity Y increases by 15 paise every year. If in 2001, the price of commodity X was Rs. 4.20 and that of Y was Rs. 6.30, in which year commodity X will cost 40 paise more than the commodity Y?

- (a) 2010 (b) 2011 (c) 2012 (d) 2013

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?

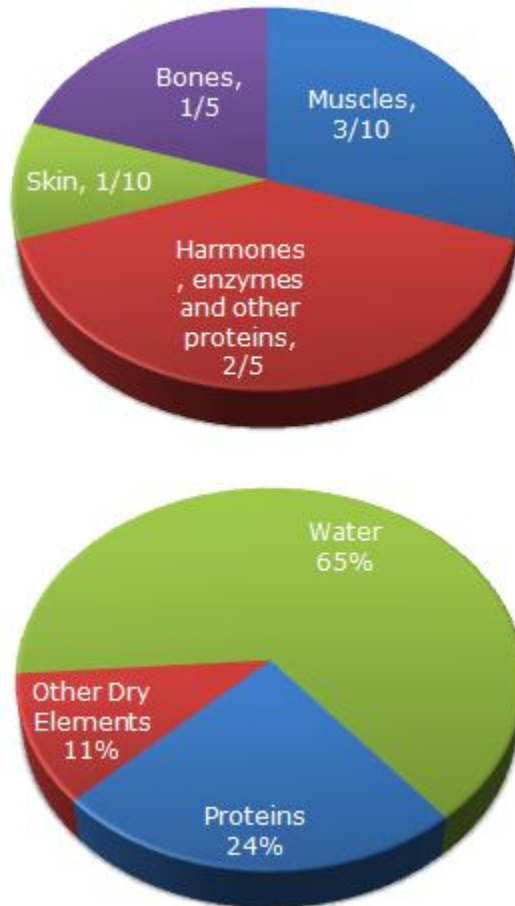
- (a) 20 (b) 22 (c) 24 (d) 28

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 10:45:12 am. How many times were the tremors felt?

- (a) 484 (b) 485 (c) 441 (d) 525

Directions (34-36): The following pie chart give the information about the distribution of weight in the human body according to different kinds of components. Study the pie charts and answer the question.

Distribution of Weight in Human Body



Q34. What percentage of proteins of the human body is equivalent to the weight of its skin ?

- (a) 41.66 % (b) 43.33 % (c) 44.44 % (d) Cannot be determined

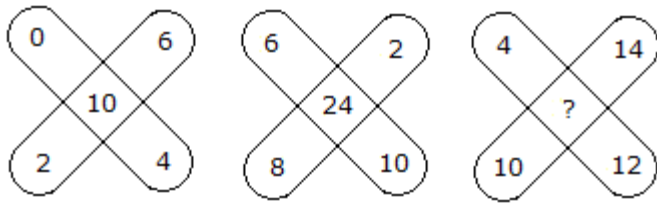
Q35. How much of the human body is neither made of bones or skin?

- (a) 40 % (b) 50 % (c) 60 % (d) 70 %

Q36. What is the ratio of the distribution of proteins in the muscles to that of the distribution of proteins in the bones?

- (a) 2:1 (b) 2:3 (c) 3:2 (d) Cannot be determined

Q37. Which one will replace the question mark?



- (a) 36 (b) 48 (c) 38 (d) 30

Q38. If $A + B$ means A is the brother of B; $A \times B$ means A is the son of B; and $A \% B$ means B is the daughter of A then which of the following means M is the maternal uncle of N?

- (a) $M + O \times N$ (b) $M \% O \times N + P$ (c) $M + O \% N$ (d) None of these

Q39. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P?

- (a) A (b) X (c) S (d) Z

Q40. 3, 4, 7, 7, 13, 13, 21, 22, 31, 34, ?

- (a) 42 (b) 43 (c) 51 (d) 52

Answer key

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