

TCS mock-8

Q1. Find the remainder when 38^{137} is divided by 39?

- (a) 1 (b) -1 (c) 38 (d) None of these

Q2. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?

- (a) 24400 (b) 21300 (c) 210 (d) 25200

Q3. Susan can type 10 pages in 5 minutes. Mary can type 5 pages in 10 minutes. Working together, how many pages can they type in 30 minutes?

- (a) 15 (b) 20 (c) 25 (d) 75

Q4. A takes twice as much time as B or thrice as much time as C to finish a piece of work. Working together, they can finish the work in 2 days. B can do the work alone in

- (a) 4 days (b) 8 days (c) 6 days (d) 12 days

Q5. The following questions are based on the information given below:

All the opposite faces of a big cube are coloured with red, black and green colours. After that is cut into 64 small equal cubes. How many small cubes are there where one face is green and other one is either black or red ?

- (a) 28 (b) 8 (c) 16 (d) 24

Q6. The annual incomes of A and B are in the ratio 3 : 4 and their annual expenditures are in the ratio 5 : 7. If each saves Rs. 5,000: find their annual incomes.

- (a) Rs. 30000 (b) Rs. 40000 (c) Rs. 50000 (d) None of these

Q7. A sum of money at compound interest become triples itself in 12 years. In how many years it will become 27 times?

- (a) 24 years (b) 30 years (c) 36 years (d) None of these

Q8. A is 20% more than B, B is 25% more than C, C is 60% less than D and D is 20% more than E. Based on the above information, which of the following is true?

- (a) C is 24% less than A (b) A is 40% less than D (c) E is 28% more than A
(d) D is 60% less than B (e) More than one of the above

Q9. The average temperature for Monday, Tuesday, Wednesday and Thursday was 38 degrees and for Tuesday, Wednesday, Thursday and Friday was 36 degrees. If the temperature on Monday was 40 degrees. Find the temperature on Friday ?

- (a) 32 (b) 36 (c) 38 (d) 40

Q10. Speed of boat with the stream and against the stream is 24 km/hr and 12 km/hr respectively. Find the approximate speed of boat in still water in m/s?

- (a) 4.5 m/s (b) 5 m/s (c) 9 m/s (d) 8 m/s

Q11. The ratio of salaries of A and B is 6 : 7 respectively. If B's salary is increased by 15% , his total salary becomes Rs. 1,61,000. Find the salary of A?

- (a) Rs. 1,10,000 (b) Rs. 1,20,000 (c) Rs. 1,40,000 (d) Rs. 1,35,000

Q12. In what time will the simple interest be $\frac{3}{5}$ of the principle at 5 percent per annum ?

- (a) 8 years (b) 7 years (c) 5 years (d) 12 years

Q13. A and B invest Rs. 4000 and Rs. 5000 respectively in a business. A invest his capital for 10 years while B invest his capital for 12 years. If they decided that they give 25% of the total profit to charity and the rest amount divided in proportion to their capitals. B's share at the end is Rs. 450, Then find the total profit.

- (a) Rs. 1200 (b) Rs. 1500 (c) Rs. 1000 (d) Rs. 1800 (e) Rs. 2000

Q14. P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both P and Q work together, working 8 hours a day, in how many days can they complete the work?

- (a) $5\frac{5}{11}$ days (b) $5\frac{6}{11}$ days (c) $6\frac{5}{11}$ days (d) $6\frac{6}{11}$ days

Q15. If selling price is doubled, the profit triples. Find the profit percent ?

- (a) 100% (b) 200% (c) 300% (d) 400%

Q16. The ratio of Sanam's age 4 years ago and Vishal's age after 4 years is 1 : 1. Presently, the ratio of their ages is 5 : 3. Find the ratio between Sanam's age 4 years hence and Vishal's age 4 years ago.

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

Q17. A and B together can finish a piece of work in 25 days. They started working together, and worked for 15 days, Then A left, B completed the remaining work in 30 days. Find the ratio of efficiency of A and B?

- (a) 1 : 2 (b) 2 : 1 (c) Data inadequate (d) None of these

Q18. The mean of 25 numbers is 72. If the mean of the first 13 numbers is 64 and that of the last 13 numbers is 78, find the 13th number.

- (a) 23 (b) 46 (c) data insufficient (d) None of these

Q19. A man walking at 5 km/hour noticed that a 225 m long train coming in the same direction crossed him in 9 seconds. The speed of the train is:

- (a) 75 kmph (b) 90 kmph (c) 85 kmph (d) None of the above

Q20. The LCM of two numbers is 4225 and the HCF is 13. If one number is 169. Then the other number is?

- (a) 325 (b) 625 (c) 525 (d) None of the above

Q21. What is the probability of getting a sum of 9 from two throws of a dice?

- (a) $\frac{1}{6}$ (b) $\frac{1}{8}$ (c) $\frac{1}{9}$ (d) $\frac{1}{12}$

Directions (22-24) : Each of the following questions is based on the following information:

1. A # B means B is at 1 metre to the right of A.
2. A \$ B means B is at 1 metre to the North of A.
3. A * B means B is at 1 metre to the left of A.
4. A @ B means B is at 1 metre to the south of A.
5. In each question first person from the left is facing North.

Q22. According to X @ B * P, P is in which direction with respect to X?

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

Q23. According to M # N \$ T, T is in which direction with respect to M?

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

Q24. According to P # R \$ A * U, in which direction is U with respect to P?

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

Q25. How many times the 29th day occur in 100 years?

- (a) 24 (b) 25 (c) 1124 (d) None of these

Q26. If you write down all the numbers from 1 to 100, then how many times do you write 3?

- (a) 11 (b) 18 (c) 20 (d) 21

Q27. Fresh fruit contains 68% water and dry fruit contains 20% water. How much dry fruit can be obtained from 100 kg of fresh fruits ?

- (a) 20 (b) 30 (c) 40 (d) 50

Directions Q28: In each of the following questions two statements are given. Which are followed by four conclusions (1), (2), (3) and (4). Choose the conclusions which logically follow from the given statements.

Q28. Statements: All the phones are scales. All the scales are calculators.

Conclusions:

1. All the calculators are scales.

2. All the phones are calculators
 3. All the scales are phones.
 4. Some calculators are phones.
- (a) Only (1) and (4) (b) Only (3) and (4) (c) Only (2) and (4)
(d) Only (1) and (2) (e) Only (1) and (3)

Q29. Amit started walking positioning his back towards the sun. After some time, he turned left, then turned right and towards the left again. In which direction is he going now?

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

Q30. The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal order to catch a rat. How much total distance is covered by the cat?

- (a) 10 (b) 14 (c) 38 (d) 48

Q31. A and B together can complete a task in 20 days. B and C together can complete the same task in 30 days. A and C together can complete the same task in 30 days. What is the respective ratio of the number of days taken by A when completing the same task alone to the number of days taken by C when completing the same task alone?

- (a) 1:3 (b) 2:4 (c) 3:1 (d) 4:5

Q32. A milkman purchases the milk at Rs. 50 per litre and sells it at Rs. 100 per litre still he mixes 2 litres water with every 6 litres of pure milk. What is the profit percentage?

- (a) 116% (b) 166.66% (c) 60% (d) 100%

Q33. If A + B means A is the sister of B; A x B means A is the wife of B, A % B means A is the father of B and A - B means A is the brother of B. Which of the following means T is the daughter of P?

- (a) $P \times Q \% R + S - T$ (b) $P \times Q \% R - T + S$ (c) $P \times Q \% R + T - S$ (d) $P \times Q \% R + S + T$

Q34. Find the next number in the series: 2, 6, 12, 20, ?

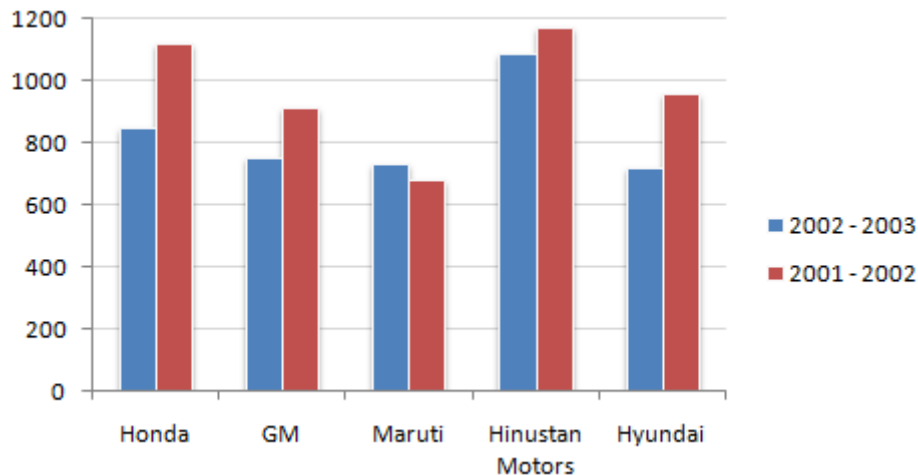
- (a) 28 (b) 30 (c) 32 (d) 36

Q35. Find the next number in the series: 47, 58, 71, 79, ?

- (a) 7 (b) 12 (c) 13 (d) 95

Directions (36 -40): Study the following bar chart and answer the questions carefully.

Sales Turnover of 5 Companies (in Rs. crores)



Q36. What is the percentage change in the overall sales turnover of the five companies together between 2001 - 2002 and 2002 - 2003 ?

- (a) 17.21 % (b) 14.68 % (c) 12.67 % (d) 21.24 %

Q37. What is the absolute change in overall sales turnover of the five companies together between 2001 - 2002 and 2002 - 2003 ?

- (a) 712.43 (b) 142.48 (c) 683.53 (d) None of these

Q38. Which of the companies shows the maximum percentage difference in sales turnover between the two years ?

- (a) Honda (b) GM (c) Hyundai (d) Maruti

Q39. What should have been the sales turnover of GM in 2002 - 2003 to have shown an excess of the same quantum over 2001 - 2002 as shown by the sales turnover of Maruti ?

- (a) 953.76 (b) 963.76 (c) 952.76 (d) 962.76

Q40. What is the approximate difference between the average sales turnover of all the companies put together between the years 2001 - 2002 and 2002 - 2003 ?

- (a) 133.45 (b) 142.48 (c) 117.6 (d) None of these

Answer key

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