

TCS mock-4

Q1. If $(x+10)\%$ of 240 is 60% more than $x\%$ of 180. then 15% of $(x+20)$ is what percent less than 25% of x ?

- (a) 14 (b) $19(1/21)$ (c) $15(1/2)$ (d) 16

Q2. $4\sqrt{2}\sqrt{3}\sqrt{729}=p$ then the value of $P^{20}\div 162+5/2$?

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

Q3. The population of a town is 1,21,000 if it increases at the rate of 10% per annum, what is the difference between the population 3 years hence and that of 2 year ago?

- (a) 62041 (b) 61055 (c) 61251 (d) 61051

Q4. A retailer has fixed the Price of an article at 20% above the cost price. If he offers a discount of Rs 2 for a purchase of Rs 40. what is his gain or loss percentage?

- (a) 12% loss (b) 8% profit (c) 10% profit (d) 14% profit

Q5. A person gains Rs. 357 on selling a table at 13% gain and a chair at 6% gain. If he sells the table at 15% gain and the chair 8% loss, he gains Rs. 203. What is the actual cost of the chair?

- (a) Rs. 1200 (b) Rs. 1400 (c) Rs. 2100 (d) Rs. 3500

Q6. What sum of money at compound interest will amount to Rs. 6930 in 3 years, if the rate of interest is 5% for the first year, 10% for the second year and 20% for the third year?

- (a) 4000 (b) 4500 (c) 5000 (d) 5500

Q7. If two numbers are, respectively, 25% and 40% less than the third number, what is the ratio of these two numbers?

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

Q8. What is the sum (in Rs) which when divided among A, B, C, D in the proportion 2:3:5:8 provides Rs 8420 less to D than what it provides to him when the proportion is 1/2:1/3:1/5:1/8?

- (a) 12510 (b) 25020 (c) 17540 (d) 35620

Q9. The ratio of alcohol and water in vessels A and B are 3:7 and 4:11, respectively. Five litres and 7 litres solutions from vessels A and B, respectively are mixed in vessel C. What is the ratio of water and alcohol in the solution in C?

- (a) 9:20 (b) 20:7 (c) 18:7 (d) 7:18

Q10. If 54 persons can complete $3/8$ th part of a task in 36 days then how many more persons are required to complete $2/3$ rd part of the same task in 48 days?

- (a) 15 (b) 18 (c) 20 (d) 21

Q11. Pawan visits his friend's home, which is 20 km away from his home. He covers the first half of the distance at the speed of 6 km/h and to cover the second half of the distance he takes double the time than the first half. What is the time taken by him to cover the whole journey?

- (a) 320 minutes (b) 300 minutes (c) 240 minutes (d) 280 minutes

Q12. Manoj travelled one third of a distance at an average speed of 16 km/hr then half of distance at a speed of 15 km/hr and covered the rest of distance at an average speed of 20 km/hr. If he took total of 15 hours in completing the journey then total distance covered by him is

- (a) 205 km (b) 250 km (c) 240 km (d) 230 km

Q13. In how many ways can X give Rs 500 to Y using only Rs 100 and Rs 20 notes, with the condition that she has only 16 notes of Rs 20, and being asked to use the notes of both the denominations?

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

Q14. What is the area of a trapezium whose parallel sides are 12 cm and 16 cm and whose height is equal to that of an equilateral triangle of side $\sqrt{3}$ cm?

- (a) 21 sq. cm (b) 17.5 sq. cm (c) 22 sq. cm (d) 27.5 sq. cm

Q15. The length of a rectangle is 48 m and its perimeter is 150 m. What will be the perimeter of a square whose area is equal to this rectangle?

- (a) 121 m (b) 123 m (c) 144 m (d) 160 m

Q16. A certain sum amounts to INR 9799 in 3 years and to INR 12464 in 8 years at a certain rate percent per annum, at simple interest. What will be the amount (in rupees) of the same sum in 5 years at double the earlier rate, at simple interest?

- (a) 12960 (b) 13530 (c) 13500 (d) 12840

Q17. What is the standard deviation of the data given below? 10, 28, 13, 18, 29, 30, 22, 23, 25, and 32

- (a) 7 (b) 8 (c) 9 (d) 10

Q18. Two ants of length 1 cm and 1.2 cm crawl in opposite directions with average speeds of 2 and 3 mm per second respectively. How many seconds will they take to cross each other?

- (a) 4.4 (b) 2.8 (c) 0.4 (d) 1.5

Q19. In how many ways can we give change for Rs 50 using 1 rupee and 2 rupee coins? For example for 5 Rs we can give it in three ways (1,1,1,1,1) (1,1,1,2) (1,2,2)

- (a) 50 (b) 51 (c) 99 (d) 100

Q20. If $f(1)=4$ and $f(x+y)=f(x)+f(y)+7xy+4$, then $f(2)+f(5)=?$

- (a) 110 (b) 125 (c) 135 (d) 150

Q21. The index numbers of five commodities are 121, 123, 125, 126, 128 and the weights assigned to these are respectively 5, 11, 10, 8, 6. Then what is the weighted average index number?

- (a) 123.8 (b) 124.2 (c) 124.6 (d) 125.2

Q22. Which one among the following has the least value?

- (a) $\sqrt{75} - \sqrt{74}$ (b) $\sqrt{74} - \sqrt{73}$ (c) $\sqrt{77} - \sqrt{76}$ (d) $\sqrt{76} - \sqrt{75}$

Q23. A retailer purchased 25 identical toys for a price of Rs P and sold some of them for Rs P. If he calculated his profit as 8%, with selling price as base instead of cost price then how many did he sell?

- (a) 20 (b) 21 (c) 23 (d) 24

Q24. A man who has to walk 11Km finds that in 30 minutes he has travelled two-ninth of the remaining distance. What is his speed in Km/h?

- (a) 8 (b) 4 (c) 4.2 (d) 4.5

Q25. With what value should the highest quantity in data 65, 52, 14, 26, 18, 35, 32, 38 be replaced so that the mean and median become equal?

- (a) 50 (b) 53 (c) 64 (d) 66

Q26. An exam was conducted and the following was analysed. 4 men were able to check some exam papers in 8 days working 5 hours regularly. What is the total number of hours taken by 2 men in 20 days to check double the number of exam papers?

- (a) 7 hours (b) 8 hours (c) 9 hours (d) 10 hours

Q27. The numbers from 101 to 150 are written as, 101102103104105...146147148149150. What will be the remainder when this total number is divided by 3?

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

Q28. If the alphabets are written in the sequence of a, bb, ccc, dddd, eeeee, fffff, What will be the 120th letter?

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

Q29. It takes Avinash a total of half an hour to travel the 8 kilometers that separate them. If he can cover a distance of 3 kilometers in $\frac{2}{5}$ of the allotted time, then what speed does he need to maintain to reach the remaining distance in the allotted time?

- (a) 3 kmph (b) 14 kmph (c) 15 kmph (d) 11 kmph

Q30. It takes Kamlesh two extra hours than it does Pankaj to travel a distance of forty kilometers. If Kamlesh were to double his current speed, Pankaj would finish the race one hour faster than Kamlesh would. If that's the case, then what is Kamlesh's speed?

- (a) 5 kmph (b) 6 kmph (c) 9 kmph (d) 11 kmph

Q31. If Devesh travels two-thirds of the trip at a speed of 6 kilometers per hour and the remaining third at a speed of 7 km/hr, he will be able to cover the total distance in one hour and twenty-four minutes. Calculate the total distance.

- (a) 6 km (b) 7 km (c) 8 km (d) 9 km

Q32. A young child named Varma completed the addition of all of the natural numbers from one to ten. On the other hand, due to the fact that he inserted the same number twice, the total is now 58. What is the sum that was arrived at by adding the numbers together twice by Varma?

- (a) 3 (b) 4 (c) 7 (d) 8

Q33. Statements: Most CPUs are keyboards. No keyboard is a Mouse. All Mouses are CPU.
Conclusion:

I. Some keyboards are CPU

II. All CPU's are Mouse

III. No Mouse is a keyboard

IV. Some Mouse are keyboard

- (a) Only I follows (b) Only II and III follow (c) Only I and III follow (d) Only II follows

Q34. Find the wrong term in the given series

IWLZ, NSOU, SOTQ, XKAM, CGJI

- (a) NSOU (b) IWLZ (c) CGJI (d) XKAM

Q35. Given below is the question followed by two statements ,I and II each containing some information. Decide which if the statement(s) is/are sufficient to answer the question.

Five persons - A,B,C,D and E sit around a circular table , facing the centre not necessarily in that order .Who sits second to the right of D?

I. A sits the immediate right of E, who is not a neighbour of D.

II. B is to the immediate left of D.

- (a) If only statement II is sufficient to answer the question.
(b) If the data in both the statement I and II together are necessary to answer the question.
(c) If the data either in statement I alone or in statement II alone is sufficient to answer the question.
(d) If only statement I is sufficient to answer the question.

Q36. Five persons A,B,C,D and E are comparing the number of books which they have bought recently. A bought more number of books than C and E, but not the highest. B bought more number of books than exactly one person. Then which of the following bought the highest number of books?

- (a) B (b) C (c) D (d) E

Q37. In a certain code, if:

J@K means j is k's daughter.

J%K means j is k's wife.

J + K means K is j's father.

J / K means K is J's mother.

F@R%I/E%N

How is R related to N in the given expression?

- (a) Mother-in-law (b) Son-in-law (c) Daughter-in-law (d) Mother

Q38. Among P,Q,R,S and T , Q is the second tallest and S is immediately taller than the shortest. R is neither tallest nor the shortest. Who among them is in the middle when they stand in the order of their heights?

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

Q39. Given below is a question followed by two statements I and II, Decide which of the statements is/are sufficient to answer the question.

What is the colour of human blood?

Statements:

I. Red is called white and white is called yellow.

II. Yellow is called pink and pink is called green.

- (a) Statement II alone is Sufficient (b) Either statement I alone or II alone is sufficient
(c) Statement I alone is sufficient (d) Both I and II are necessary

Q40. Sohan and Saurabh are brothers. Tanya and Tashima are sisters. Saurabh's father is the only son-in-law of Tanya's mother's mother. How is Tasima related to Sohan's father ?

'#' is sister-in-law, '>' is daughter, '<' is granddaughter, and '@' is sister?

- (a) # (b) > (c) < (d) %

Answer key

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