

Cognizant mock-2

Q1. What will come in place of question mark in the following equation?

$$49/10 + 3/11 + 7/15 = ?$$

- (a) $\frac{17}{30}$ (b) $5\frac{211}{330}$ (c) $\frac{21}{5}$ (d) $\frac{5}{3}$

Q2. There are 5 packages. The weight of the 1st package is 500 kg and the weight of the 2nd package is 50% higher than the weight of the 3rd package whose weight is 45% higher than the 1st package weight. The fourth package at 360 kgs is 60% lighter than the fifth package. Find the average weight of all the five packages.

- (a) 714.5 kg (b) 728.3 kg (c) 725.9 kg (d) 716.6 kg (e) None of these

Q3. What will come in place of question mark (?) in the following question?

$$38\% \text{ of } 4500 - 25\% \text{ of } ? = 1640$$

- (a) 260 (b) 270 (c) 280 (d) None of these

Q4. The total population of a village increased from 1,80,00 to 22, 500 in a decade. The average percentage increase of population per year of that village is:

- (a) 2.37% (b) 2.5% (c) 3. 6% (d) 6.75%

Q5. Rs. 600 are divided among A, B, C so that Rs. 40 more than $\frac{2}{5}$ th of A's share, Rs. 20 more than $\frac{2}{7}$ th of B's share and Rs. 10 more than $\frac{9}{17}$ th of C's may all be equal. What is A's share (in Rupees)?

- (a) 150 (b) 170 (c) 200 (d) 180 (e) 280

Q6. There are 12 boys and 15 girls. How many different dancing groups can be formed with 2 boys and 3 girls.

- (a) 30030 (b) 35060 (c) 35565 (d) 31084

Q7. X can do a piece of work in 40 days. He works at it for 8 days and then Y finished it in 16 days. How long will they together take to complete the work?

- (a) $13\frac{1}{3}$ days (b) 15 days (c) 20 days (d) 26 days

Q8. 3600 men had provisions for 59 days. They started consuming, but after 10 days, reinforcement arrives. As a result, the remaining food lasted for 36 days. What was the strength of the reinforcement?

- (a) 1300 (b) 1400 (c) 1500 (d) None of these

Q9. In the India-Australia one day match, due to rain, India needed 324 runs in 48 overs to win. In initial 10 overs, the average scoring rate was 6, but in next 10 overs it increased to 8.5. It then declined to 5.5 in next 10 overs and again rose to 7 in next 10 overs. To win the match now what average is needed?

- (a) 8.25 (b) 6.75 (c) 7.75 (d) 7.0

Q10. Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph, he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?

- (a) 8 kmph (b) 11 kmph (c) 12 kmph (d) 14 kmph

Q11. 3 boxes have some average weight. When one box which weighs 89 kg is replaced by another box, the average weight increases by 5 kg. How much the new box weighs?

- (a) 109 kg (b) 94 kg (c) 104 kg (d) 84 kg

Q12. 36 people {a₁, a₂, ..., a₃₆} meet and shake hands in a circular fashion. In other words, there are totally 36 handshakes involving the pairs, {a₁, a₂}, {a₂, a₃}, ..., {a₃₅, a₃₆}, {a₃₆, a₁}. Then the size of the smallest set of people such that the rest have shaken hands with at least one person in the set is:

- (a) 19 (b) 9 (c) 24 (d) 12

Q13. Two dice are thrown together. What is the probability that the sum of the number on the two faces is divisible by 4 or 6.

- (a) $\frac{9}{16}$ (b) $\frac{1}{2}$ (c) $\frac{7}{18}$ (d) $\frac{11}{18}$

Q14. A fuel dealer mixes two brands of fuel which cost in the ratio 2:3. A solution containing 30% Brand A and remaining Brand B yields a profit of 10% when sold at RS 297. What is the cost of brand B?

- (a) 300 (b) 208 (c) 262 (d) 354 (e) None of these

Q15. A rectangular carpet has an area of 120 sq metres and a perimeter of 46 metres. The length of its diagonal (in metres) is:

- (a) 11 m (b) 13 m (c) 15 m (d) 17 m

Q16. At present Anil is 1.5 times Purvi's age. Eight years hence, the respective ratio between Anil and Purvi's ages then will be 25: 18. What is Purvi's Present age?

- (a) 28 years (b) 42 years (c) 50 years (d) None of these

Q17. A and B can do a work in 8 days, B and C can do the same work in 12 days. A, B and C together can finish it in 6 days. A and C together will do it in :

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

Q18. A train 360 m long is running at a speed of 45 km/hr. In what time will it pass a bridge 140 m long?

- (a) 40 sec (b) 42 sec (c) 45 sec (d) 48 sec

Q19. A student erroneously multiplied a number by $\frac{2}{5}$ instead of $\frac{5}{2}$. What is the percentage error in the calculation?

- (a) 24% (b) 54% (c) 74% (d) 84%

Q20. A, B and C enter into a partnership in the ratio $\frac{7}{2} : \frac{4}{3} : \frac{6}{5}$. After 4 months, A increases his share 50%. If the total profit at the end of one year be Rs. 21,600, then B's share in the profit is:

- (a) Rs. 2100 (b) Rs. 2400 (c) Rs. 3600 (d) Rs. 4000

Q21. If A + B means A is the brother of B; A % B means A is the father of B and A x B means A is the sister of B. Which of the following means M is the uncle of P?

- (a) M % N x P (b) N x P % M (c) M + S % R % P (d) M + K % T x P

Q22. Introducing a woman, Shashank said, "She is the mother of the only daughter of my son." How that woman is related to Shashank?

- (a) Daughter (b) Sister-in-law (c) Wife (d) Daughter-in-law

DIRECTIONS for questions (23-24): In the questions below are given three statements, followed by conclusions: I, II, III, IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Q23. Statements: Some ships are boats. All boats are submarines. Some submarines are yatches.

Conclusion:

I. Some yatches are boats.

II. Some submarines are boats.

III. Some submarines are ships.

IV. Some yatches are ships

(a) All follow

(b) Only II and III follow

(c) Only III follows

(d) Only IV follows

Q24. 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

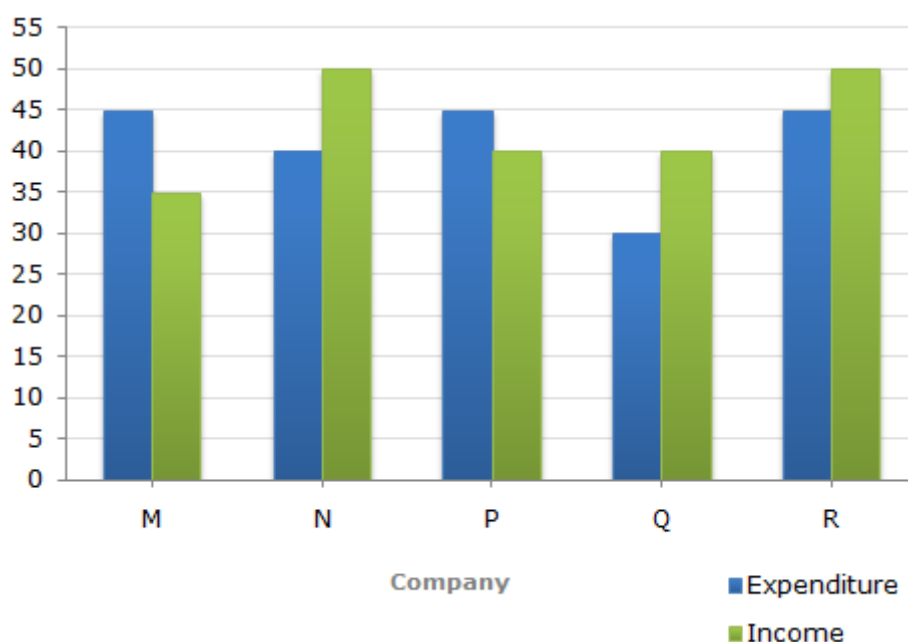
(c) Only I and III follow

(d) Only II follows

Directions (25-29): The following bar graph shows the Income and Expenditures (in million US \$) of five companies in the year 2001. The percent profit or loss of a company is given by

$$\% \text{ Profit/Loss} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

Income and Expenditure (in million US \$) of five companies in the year 2001.



Q25. The companies M and N together had a percentage of profit/loss of?

(a) 12% loss

(b) 10% loss

(c) 10% profit

(d) There was no loss or profit

Q26. In 2001, what was the approximate percentage of profit/loss of all the five Companies taken together?

- (a) 5% profit (b) 6.5% profit (c) 4% loss (d) 7% loss

Q27. Which company earned the maximum percentage profit in the year 2001?

- (a) M (a) N (c) P (d) Q

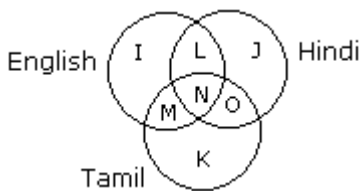
Q28. For Company R, if the expenditure had increased by 20% in year 2001 from year 2000 and the company had earned profit of 10% in 2000, what was the Company's income in 2000 (in million US \$)?

- (a) 35.75 (b) 37.25 (c) 38.5 (d) 41.25

Q29. If the income of Company Q in 2001 was 10% more than its income in 2000 and the Company had earned a profit of 20% in 2000, then its expenditure in 2000 (in million US \$) was?

- (a) 28.28 (b) 30.30 (c) 32.32 (d) 34.34

Q30. Study the diagram and identify the people who can speak only one language.



- (a) L + M + O (b) K + J + I (c) K (d) I

Q31. Arrange the words given below in a meaningful sequence.

1. Tree	2. Seed	3. Flowers
4. Fruit	5. Plant	

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

Q32. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?

- (a) Sunday (b) Saturday (c) Friday (d) Wednesday

Q33. The reflex angle between the hands of a clock at 10.25 is:

- (a) 180° (b) $192\frac{1}{2}^\circ$ (c) 195° (d) $197\frac{1}{2}^\circ$

Q34. Choose the word which is different from the rest.

- (a) Decantation (b) Filtration (c) Centrifugation (d) Sublimation (e) Condensation

Q35. A fires 5 shots to B's 3 but A kills only once in 3 shots while B kills once in 2 shots. When B has missed 27 times, A has killed:

- (a) 30 birds (b) 60 birds (c) 72 birds (d) 90 birds

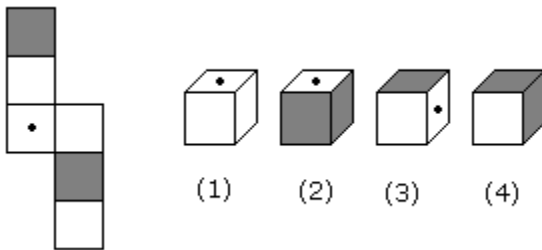
Q36. At a game of billiards, A can give B 15 points in 60 and A can give C to 20 points in 60. How many points can B give C in a game of 90?

(a) 30 points (b) 20 points (c) 10 points (d) 12 points

Q37. A two-digit number is such that the product of the digits is 8. When 18 is added to the number, then the digits are reversed. The number is:

(a) 18 (b) 24 (c) 42 (d) 81

Q38. The figure given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that is similar to the box formed.



(a) 2 and 3 only (b) 1, 3 and 4 only (c) 2 and 4 only (d) 1 and 4 only

Directions (39-40): P, Q, R, S, T, U, V and W are sitting round the circle and are facing the centre:

1. P is second to the right of T who is the neighbour of R and V.
2. S is not the neighbour of P.
3. V is the neighbour of U.
4. Q is not between S and W. W is not between U and S.

Q39. Which two of the following are not neighbours ?

(a) RV (b) UV (c) RP (d) QW

Q40. Which one is immediate right to the V ?

(a) P (b) U (c) R (d) T

Answer key

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