TPC test-13

Q1. A tradesman sold an article at a loss of 20%. If the selling price had been increased by Rs. 100, there would have been a gain of 5%. What was the cost price of the article?

(a) RS. 400   (b) Rs. 500   (c) Rs. 600   (d) Rs. 700

Q2. Find the average and sum of 70 natural numbers ?

(a) 1242.5   (b) 2485   (c) Data inadequate   (d) None of these

Q3. An inspector rejects 0.08% of the meters as defective. How many will he examine to reject 2 ?

(a) 2500   (b) 1600   (c) 2000   (d) None of these

Q4. 85 men can complete a piece of work in 60 days, then 68 men will complete the same work in how many days?

(a) 15 days   (b) 30 days   (c) 68 days   (d) 75 days

Q5. If 50% of (x – y) = 30% of (x + y), then what percent of x is y ?

(a) 20%   (b) 25%   (c) 30%   (d) None of these

Q6. A sum of money amounts to Rs. 6000 in 5 years and to Rs. 9000 in 10 years on compound interest. Find the sum?

(a) Rs.4000   (b) Rs. 5000   (c) Rs. 6000   (d) Rs. 8000

Q7. A dealer sold one-third of his articles at a gain of 20% and remaining at cost price. Find the gain earned by him in the whole transaction?

(a) 6.66%   (b) 10%   (c) 15%   (d) None of these

Q8. A is 60% more efficient than B therefore able to finish a piece of work in 40 days, in how many days B alone will complete the whole work ?

(a) 80 days   (b) 64 days   (c) 25 days   (d) None of these

Q9. The average of 50 numbers is 20. If two numbers 37 and 43 are discarded, find the average of the remaining numbers.

(a) 15   (b) 19.17   (c) 21.17   (d) None of these

Q10. A sum of money at simple amounts to Rs. 815 in 3 years and to Rs. 854 in four years, then the sum is :

(a) Rs. 650   (b) Rs. 690   (c) Rs. 698   (d) Rs, 700

Q11. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 6 years and that for 9 years?

(a) 1 : 3   (b) 1 : 4   (c) 2 : 3   (d) Data inadequate   (e) None of these

Q12. A and B together have Rs. 2420. If $\frac{4}{15}$ of A's amount is equal to $\frac{2}{5}$ of B's amount, how much amount does B have?

(a) Rs. 460   (b) Rs. 968   (c) Rs. 550   (d) Rs. 664

Q13. A can finish a piece of work in 20 days, while B can complete the same work in 30 days. In how many days the work will be completed if they work on alternate days starting with A?

(a)12 days   (b) 24 days   (c) 30 days   (d) 60 days

Q14. Two numbers are respectively 50% and 70% more than a third number. The ratio of the two numbers is:

(a) 15 : 17   (b) 3 : 5   (c) 4 : 5   (d) 6 : 7

Q15. Find the the ratio in which rice at Rs. 14.4/kg be mixed with rice at Rs. 11.4/kg to produce a mixture worth Rs. Rs. 12.6/kg ?

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

Q16. 12 year old Mayank is three times as old as his brother Rakesh. How old will Mayank be when he is twice as old as Rakesh ?

(a) 14 years   (b) 16 years   (c) 18 years   (d) 20 years

Q17. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is:

(a) 50 m   (b) 72 m   (c) 80 m   (d) 82 m

Q18. A cyclist can complete $\frac{9}{13}$ th of the journey in 54 minutes. In how many minutes he will complete the remaining journey?

(a) 24   (b) 6   (c) 78   (d) None of these

Q19. A tailor had a number of shirt pieces to cut from a roll of fabric. He cut each roll of equal length into 10 pieces. He cut at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes ?

(a) 32 rolls   (b) 54 rolls   (c) 108 rolls   (d) 120 rolls
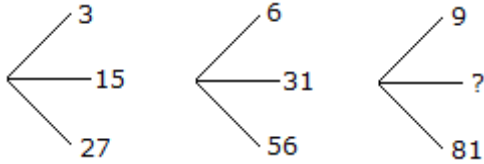
Q20. The probability of event equal to zero is called;

(a) Unsure event   (b) Sure Event   (c) Impossible event   (d) Independent event

Q21. Arrange the words given below in a meaningful sequence.

1. Leaf	2. Fruit	3. Stem
4. Root	5. Flower	

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

Q22. Which one will replace the question mark?

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 3            6            9
 \            \            \
  <---15       <---31       <---?
 /            /            /
 27           56           81
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(a) 45   (b) 41   (c) 32   (d) 40

Q23. Choose the alternative which is closely resembles the water-image of the given combination.

GR98AP76ES

(1) GR68AP79ES   (2) GR88AP79ES
(3) GR88AP79ES   (4) GR88AP79ES

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

Q24. Find the odd man out.

3, 5, 11, 14, 17, 21

(a) 21   (b) 17   (c) 14   (d) 3

Q25. Look at this series: 8, 6, 9, 23, 87 , ... What number should come next?

(a) 128   (b) 226   (c) 324   (d) 429

Q26. Look at this series: 14, 28, 20, 40, 32, 64, ... What number should come next?

(a) 52   (b) 56   (c) 96   (d) 128

Q27. When seen through a mirror, a clock shows 8 : 30. The correct time is

(a) 2 : 30   (b) 3 : 30   (c) 5 : 30   (d) 8 : 30

Q28. If P $ Q means P is the brother of Q; P # Q means P is the mother of Q; P * Q means P is the daughter of Q in A # B $ C * D, who is the father?

(a) D   (b) B   (c) C   (d) Data is inadequate

Q29. In each of the following questions find out the alternative which will replace the question mark.
Peacock : India :: Bear : ?
(a) Australia   (b) America   (c) Russia   (d) England

Q30. Statements: Some messages are whatsapp. All Hikes are whatsapp. All whatsapp are facebook.

Conclusion:

I. Some facebook are messages   II. All hikes are facebook

III. Some messages are hikes   IV. Some message are facebook

(a) All follow   (b) Only I, II and III follow   (c) Only I, II and IV follow   (d) Only III and IV follow

Directions (31-33) : A cube is painted yellow on all faces is cut into 64 smaller cubes of equal sizes. Solve the following questions on the bases of given information :

Q31. Find the number of cubes with no face painted?

(a) 4   (b) 8   (c) 12   (d) 20

Q32. Find the number of cubes with at least two faces painted?

(a) 24   (b) 30   (c) 32   (d) None of these

Q33. Find the number of cubes with exactly two faces painted?

(a) 16   (b) 24   (c) 32   (d) 8

Direction (34-35): Dev, Kumar, Nilesh, Ankur and Pintu are standing facing to the North in a playground such as given below:

1. Kumar is at 40 m to the right of Ankur.
2. Dev is are 60 m in the south of Kumar.
3. Nilesh is at a distance of 25 m in the west of Ankur.
4. Pintu is at a distance of 90 m in the North of Dev.

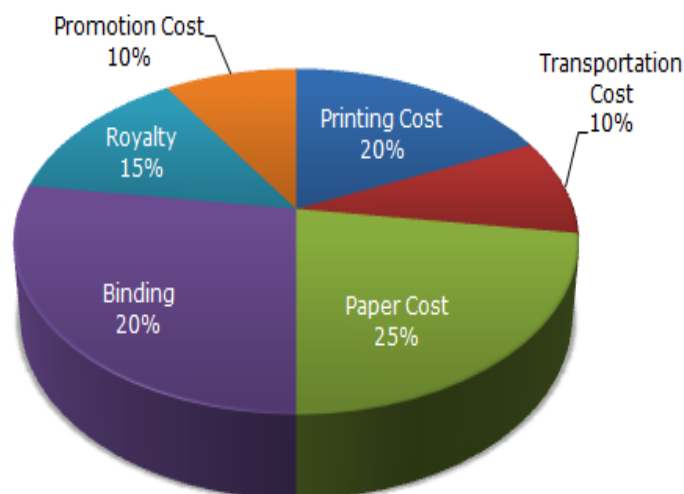Q34. Which one is in the North-East of the person who is to the left of Kumar?

(a) Dev   (b) Nilesh   (c) Ankur   (d) Pintu

Q35. If a boy starting from Nilesh, met to Ankur and then to Kumar and after this he to Dev and then to Pintu and whole the time he walked in a straight line, then how much total distance did he cover?

(a) 215 m   (b) 155 m   (c) 245 m   (d) 185 m

Direction (36-40): The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.

Various Expenditures (in percentage) Incurred in Publishing a Book

Q36. If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?

(a) Rs. 19,450   (b) Rs. 21,200   (c) Rs. 22,950   (d) Rs. 26,150

Q37. What is the central angle of the sector corresponding to the expenditure incurred on Royalty?

(a) 15°   (b) 24°   (c) 54°   (d) 48°

Q38. The price of the book is marked 20% above the C.P. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?

(a) Rs. 36   (b) Rs. 37.50   (c) Rs. 42   (d) Rs. 44.25

Q39. If 5500 copies are published and the transportation cost on them amounts to Rs. 82500, then what should be the selling price of the book so that the publisher can earn a profit of 25%?

(a) Rs. 187.50   (b) Rs. 191.50   (c) Rs. 175   (d) Rs. 180

Q40. Royalty on the book is less than the printing cost by:

(a) 5%   (b) 20%   (c) 25%   (d) 33.2%

Answer key

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