TPC test-7

Q1. A salesman gets commission on total sales at 10%. If the sale is exceeded Rs.20,000 he gets an additional commission as bonus of 2.5% on the excess of sales over Rs.20,000. If he gets total commission of Rs.2500, then the bonus he received is:

(a) Rs. 100   (b) Rs. 120   (c) Rs. 150   (d) None of these

Q2. A Shopkeeper sells two articles at Rs.12000 each, making a profit of 20% on the first article and a loss of 20% on the second article. Find the net Profit or loss that he makes?

(a) 4%   (b) 5%   (c) 6%   (d) 7%

Q3. The diagonal of the floor of a rectangular closet is $7\frac{1}{2}$ feet. The shorter side of the closet is $4\frac{1}{2}$ feet. What is the area of the closet in square feet?

(a) $5\frac{1}{4}$ (b) $13\frac{1}{2}$ (c) 27   (d) 37

Q4. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is:

(a) 60 gallons   (b) 100 gallons   (c) 120 gallons   (d) 180 gallons

Q5. 10% of the voters did not cast their votes in an election between two candidates 10% of the votes polled were found invalid. The successful candidate got 54% of the valid votes and won by a margin of 3240 votes. The number of voters enrolled in the voter's list was:

(a) 25000   (b) 30000   (c) 40000   (d) 50000

Q6. A 270 metres long train running at the speed of 150 kmph crosses another train running in opposite direction at the speed of 50 kmph in 9 seconds. What is the length of the other train?

(a) 220 m   (b) 230 m   (c) 260 m   (d) 320 m   (e) None of these

Q7. A's salary is 60% of B's salary which is 25% of C's salary. What percentage of C's salary is A's salary?

(a) 15   (b) 20   (c) 25   (d) 30

Q8. In a group of 60 employees, the average salary of all the employees was calculated to be Rs. 45,950. It was later found that the salary of one of the employees is recorded as Rs. 60,000 instead of Rs. 96,000. Determine the actual average salary of the group?

(a) Rs. 45,600   (b) Rs. 46,5500   (c) Rs. 96,000   (d) None of these

Q9. 405 sweets were distributed equally among children in such a way that the number of sweets received by each child is 20% of the total number of children. How many sweets did each child receive?

(a) 9   (b) 10   (c) 11   (d) 12

Q10. What will be remainder when (67^{67} + 67) is divided by 68 ?

(a) 1   (b) 63   (c) 66   (d) 67

Q11. The sum of ages of 5 children born at the intervals of 3 years each is 100 years. What is the age of the youngest child?

(a) 4 years   (b) 8 years   (c) 10 years   (d) None of these

Q12. The percentage profit earned by selling an article for Rs. 3,200 is equal to the percentage loss incurred by selling the same article for Rs. 1,800. At what price should the article be sold to make 20% profit?

(a) Rs. 2,880   (b) Rs. 3,000   (c) Rs. 3,200   (d) None of these

Q13. The average weight of A, B and C is 35 kg. If the average weight of A and B be 25 kg and that of B and C be 32 kg, then the weight of B is:

(a) 25 kg   (b) 26 kg   (c) 28 kg   (d) None of these

Q14. Find the percentage increase in the area of a rectangle, if each of its sides is increased by 25% is:

(a) 40%   (b) 42%   (c) 56.25%   (d) 46%

Q15. If n is a natural number, then $(6n^2 + 6n)$ is always divisible by:

(a) 6 only   (b) 6 and 12 both   (c) 12 only   (d) by 18 only

Q16. If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same in 2 days, the time taken by 15 men and 20 boys in doing the same type of work will be:

(a) 4 days   (b) 5 days   (c) 6 days   (d) 7 days

Q17. A man goes to office at 42 kmph, and returns at 48 kmph. If it takes him 10 hours to complete the journey. Find the distance between his home and office?

(a) 220 km   (b) 230 km   (c) 240 km   (d) None of these

Q18. Three unbiased coins are tossed. What is the probability of getting at most two heads?

(a) $\frac{3}{4}$ (b) $\frac{1}{4}$ (c) $\frac{4}{3}$ (d) $\frac{7}{8}$

Q19. In a 500 m race, the ratio of the speeds of two contestants A and B is 3 : 4. A has a start of 140 m. Then, A wins by:
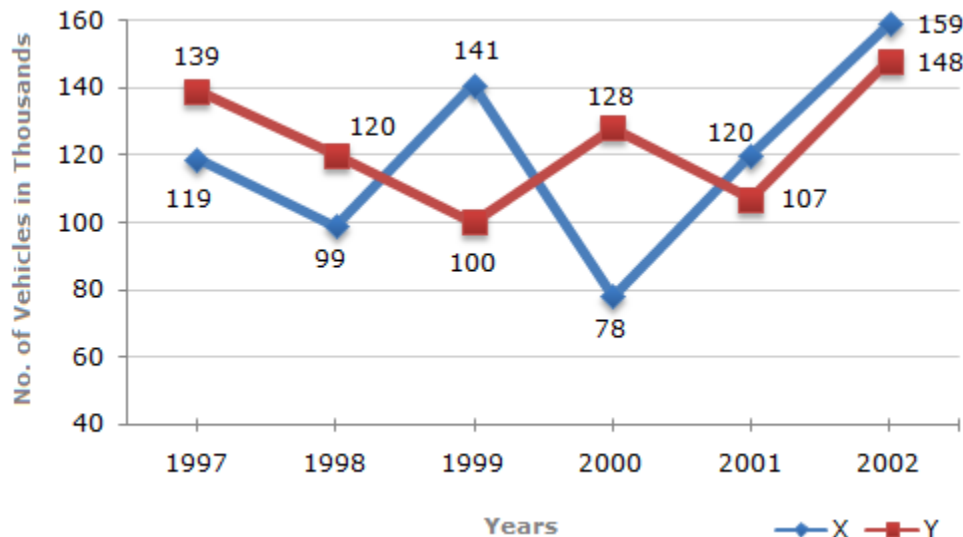
(a) 60 m   (b) 40 m   (c) 20 m   (d) 10 m

Q20. $(256)^{0.16} \times (256)^{0.09} = ?$

(a) 4   (b) 16   (c) 64   (d) 256.25

Directions (21-25): Study the following line graph and answer the questions based on it.

Number of Vehicles Manufactured by Two companies over the Years (Number in Thousands)

Q21. What is the difference between the number of vehicles manufactured by Company Y in 2000 and 2001 ?

(a) 50000   (b) 42000   (c) 33000   (d) 21000

Q22. What is the difference between the total productions of the two Companies in the given years?

(a) 19000   (b) 22000   (c) 26000   (d) 28000

Q23. What is the average numbers of vehicles manufactured by Company X over the given period? (rounded off to nearest integer)

(a) 119333   (b) 113666   (c) 112778   (d) 111223

 Q24. In which of the following years, the difference between the productions of Companies X and Y was the maximum among the given years ?

(a) 1997   (b) 1998   (c) 1999   (d) 2000

Q25. The production of Company Y in 2000 was approximately what percent of the production of Company X in the same year ?

(a) 173   (b) 164   (c) 132   (d) 97

Q26. In the following question 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.
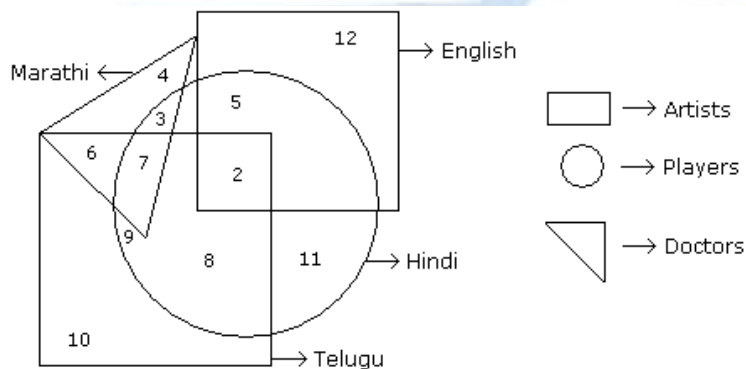Statements: All the books are pencils. No pencil is eraser.
Conclusions:

1. All the pencils are books.

2. Some erasers are books.

3. No book is eraser.

4. Some books are erasers.

(a) Only (3) (b) Only (1) and (3) (c) Only (1) and (2)

(d) Only (2) and (3) (e) Only (3) and (4)

Directions (27-30): In the following figure small square represents the persons who know English, triangle to those who know Marathi, big square to those who know Telugu and circle to those who know Hindi. In the different regions of the figures from 1 to 12 are given.

Q27. How many persons can speak English and Hindi both the languages only ?

(a) 5 (b) 8 (c) 7 (d) 18

Q28. How many persons can speak Marathi and Telugu both?

(a) 10 (b) 11 (c) 13 (d) None of these

Q29. How many persons can speak English, Hindi and Telugu?

(a) 8 (b) 2 (c) 7 (d) None of these

Q30. How many persons can speak all the languages?

(a) 1 (b) 8 (c) 2 (d) None

Q31. In the following questions find out the alternative which will replace the question mark.

Conference : Chairman :: Newspaper : ?
(a) Report (b) Distributor (c) Printer (d) Editor
Q32. Which one will replace the question mark?

18	24	32
12	14	16
3	?	4
72	112	128

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

Q33. Choose the word which is different from the rest.

(a) Turtle   (b) Lamb   (c) Colt   (d) Bitch   (e) Farrow

Q34. A man wears socks of two colours - Black and brown. He has altogether 20 black socks and 20 brown socks in a drawer. Supposing he has to take out the socks in the dark, how many must he take out to be sure that he has a matching pair ?

(a) 3   (b) 20   (c) 39   (d) None of these

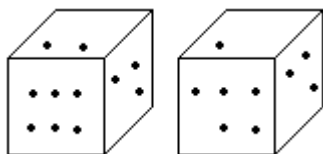Q35. Introducing Sonia, Aamir says, "She is the wife of only nephew of only brother of my mother." How Sonia is related to Aamir?

(a) Wife   (b) Sister   (c) Sister-in-law   (d) Data is inadequate

Q36. 6, 13, 25, 51, 101, ?

(a) 201   (b) 202   (c) 203   (d) 205

Q37. Two positions of dice are shown below. How many points will be on the top when 2 points are at the bottom?

(a) 6   (b) 5   (c) 4   (d) 1

Q38. Rohit walked 25 m towards south. Then he turned to his left and walked 20 m. He then turned to his left and walked 25 m. He again turned to his right and walked 15 m. At what distance is he from the starting point and in which direction?

(a) 35 m East   (b) 35 m North   (c) 30 m West   (d) 45 m East

Q39. Which of the following is not a leap year?

(a) 700   (b) 800   (c) 1200   (d) 2000

Q40. A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is:

(a) $59 \frac{7}{12}$ min past 3.   (b) 4 pm.   (c) $58 \frac{7}{11}$ min past 3.   (d) None of these

Answer key

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