TPC test-5

Q1. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:
(a) 145°   (b) 150°   (c) 155°   (d) 160°

Q2. A man walks 2 km towards North. Then he turns to East and walks 10 km. After this he turns to North and walks 3 km. Again he turns towards East and walks 2 km. How far is he from the starting point?

(a) 10 km   (b) 13 km   (c) 15 km   (d) None of these

Q3. Which two months in a year have the same calendar?
(a) October, December   (b) April, November   (c) June, October,   (d) April, July

Q4. At what time between 5.30 and 6 will the hands of a clock be at right angles?

(a) $43\frac{5}{11}$ min. past 5   (b) $43\frac{7}{11}$ min. past 5   (c) 40 min. past 5   (d) 45 min. past 5

Q5. Some boys are sitting in three rows all facing North such that A is in the middle row. P is just to the right of A but in the same row. Q is just behind of P while R is in the North of A. In which direction of R is Q?

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

Q6. One morning after sunrise, Vimal started to walk. During this walking he met Stephen who was coming from opposite direction. Vimal watch that the shadow of Stephen to the right of him (Vimal). To Which direction Vimal was facing?

(a) East   (b) West   (c) South   (d) Data inadequate

Directions (7-9): 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.

Q7. 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

Q8. How many small cubes are there whose no faces are coloured ?

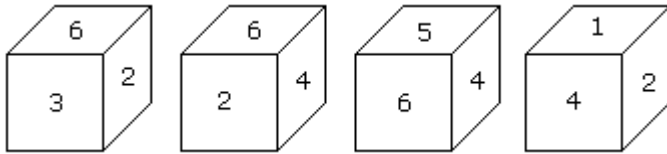(a) 0   (b) 4   (c) 8   (d) 16

Q9. How many small cubes are there whose at the most two faces are coloured ?

(a) 48   (b) 56   (c) 28   (d) 24

Q10. How many leap years does 100 years have?

(a) 23   (b) 24   (c) 25   (d) 26

Q11. Which number is on the face opposite to 6?

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

Q12. Find the next term in the series :

1, 1, 4, 8, 9, 27, 16, ?

(a) 32   (b) 64   (c) 81   (d) 256

Q13. Find the next term in the series :

6, 13, 25, 51, 101, ?

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

Q14. 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
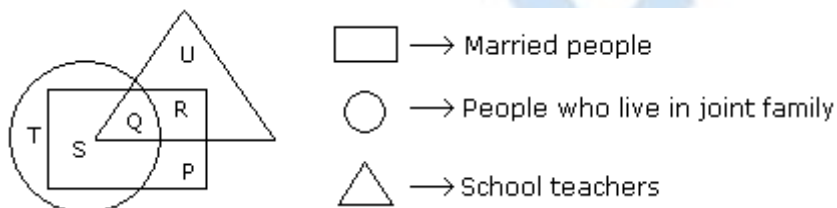
Q15. Pointing to Varman, Madhav said, "I am the only son of one of the sons of his father." How is Varman related to Madhav?

(a) Nephew   (b) Uncle   (c) Father or Uncle   (d) Father

Q16. Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ?

(a) Rs. 4, Rs. 23   (b) Rs. 13, Rs. 17   (c) Rs. 15, Rs. 14   (d) Rs. 17, Rs. 13

Directions (17-19): Study the following figure and answer the questions given below

Q17. By which letter, the married teachers who live in joint family are represented ?
(a) R   (b) Q   (c) S   (d) P

Q18. By which letter, the married people who live in joint family but not are school teachers are represented ?

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

Q19. By which letter, the people who live in joint family but are neither married nor teachers are represented ?

(a) T   (b) R   (c) Q   (d) S

Q20. In 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.

Statements: All men are vertebrates. Some mammals are vertebrates.
Conclusions:
1. All men are mammals.

2. All mammals are men.

3. Some vertebrates are mammals.

4. All vertebrates are men.

(a) Only (4)   (b) Only (2)   (c) Only (3)   (d) Only (1)   (e) Only (1) and (3)

Directions (21-24): The following table gives the percentage distribution of population of five states, P, Q, R, S and T on the basis of poverty line and also on the basis of sex.

State	Percentage of Population below the Poverty Line	Proportion of Males and Females	
		Below Poverty Line	Above Poverty Line
		M: F	M : F
P	35	5: 6	6: 7
Q	25	3: 5	4: 5
R	24	1: 2	2: 3
S	19	3: 2	4: 3
T	15	5: 3	3: 2

Q21. If the male population above poverty line for State R is 1.9 million, then the total population of State R is?

(a) 4.5 million   (b) 4.85 million   (c) 5.35 million   (d) 6.25 million

Q22. What will be the number of females above the poverty line in the State S if it is known that the population of State S is 7 million?

(a) 3 million   (b) 2.43 million   (c) 1.33 million   (d) 5.7 million

Q23. What will be the male population above poverty line for State P if the female population below poverty line for State P is 2.1 million?

(a) 2.1 million   (b) 2.3 million   (c) 2.7 million   (d) 3.3 million

Q24. If the population of males below poverty line for State Q is 2.4 million and that for State T is 6 million, then the total populations of States Q and T are in the ratio?

(a) 1:3   (b) 2:5   (c) 3:7   (d) 4:9

Q25. A jogger running at 9 kmph alongside a railway track in 240 metres ahead of the engine of a 120 metres long train running at 45 kmph in the same direction. In how much time will the train pass the jogger?

(a) 3.6 sec   (b) 18 sec   (c) 36 sec   (d) 72 sec

Q26. 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

Q27. An error 5% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is:

(a) 10%   (b) 10.25%   (c) 11%   (d) None of those

Q28. If Rs. 3128 be divided into three parts, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then the second part is:

(a) Rs. 816   (b) Rs. 1088   (c) Rs. 1224   (d) None of these

Q29. Two man A and B are paid a total of Rs. 1650 per week by their employer. If A is paid 120 percent of the sum paid to B, how much is A paid per week?

(a) Rs. 200   (b) Rs. 250   (c) Rs. 300   (d) None of these

Q30. Bhajan Singh purchased 120 reams of paper at Rs 80 per ream. He spent Rs 280 on transportation, paid octroi at the rate of 40 paise per ream and paid Rs 72 to the coolie. If he wants to have a gain of 8 %, what must be the selling price per ream?

(a) 86   (b) 89   (c) 87.48   (d) 90

Q31. The ratio between the perimeter and the breadth of a rectangle is 5 : 1. If the area of the rectangle is 216 sq. cm, what is the length of the rectangle?

(a) 16 cm   (b) 18 cm   (c) 24 cm   (d) Data inadequate   (e) None of these

Q32. Two trains of equal length are running on parallel lines in the same direction at 89 km/hr and 79 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is:

(a) 50 m   (b) 60 m   (c) 100 m   (d) 120 m

Q33. If the price of a fan is first decreased by 20% and then increased by 20%, then the net change in the price will be :

(a) No change   (b) 20   (c) 4%   (d) 5%

Q34. 10 women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?

(a) 3   (b) 5   (c) 7   (d) Cannot be determined   (e) None of these

Q35. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of 12%, the effective rate of interest becomes:

(a) 10%   (b) 11.5%   (c) 12%   (d) None of these

Q36. Due to reduction of 25% in price of oranges a customer can purchase 4 oranges more for Rs. 16. what is original price of an orange?

(a) 1   (b) 1.33   (c) 1.5   (d) Data inadequate

Q37. Aman sold an article to Brijesh at a profit of 20%. Brijesh sold the same article to Simran at a loss of 25% and Simran sold the same article to Danny at a profit of 40%. If Danny paid Rs. 756 for the article, then find how much did Aman pay for it?

(a) Rs. 200   (b) Rs. 400   (c) Rs. 600   (d) None of these

Q38. The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 27. What is the difference between the two digits of that number?

(a) 3   (b) 4   (c) 9   (d) Cannot be determined   (e) None of these

Q39. Without stoppages, the speed of a bus is 72 kmph and with stoppages, it is 60 kmph. For how many minutes does the bus stop per hour?

(a) 9   (b) 10   (c) 12   (d) 20

Q40. A boat running upstream takes 8 hours 48 minutes to cover a certain distance, while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?

(a) 2 : 1   (b) 3 : 2   (c) 8 : 3   (d) Cannot be determined   (e) None of these

Answer key

1	C	9	B	17	B	25	C	33	C
2	B	10	B	18	C	26	B	34	C

3	B	11	B	19	A	27	B	35	D
4	B	12	B	20	C	28	B	36	B
5	D	13	C	21	D	29	D	37	C
6	C	14	D	22	B	30	D	38	A
7	C	15	C	23	D	31	B	39	B
8	C	16	B	24	B	32	A	40	C