

## TPC test-21

Direction for questions 1-4: Read the given information carefully and answer the following questions:

Month	Year 2021 (\$)	Year 2022 (\$)	Year 2023 (\$)
Jan	50	55	60
Feb	52	57	62
Mar	54	58	64
Apr	56	60	66
May	58	62	68
<b>Jun</b>	<b>60</b>	<b>64</b>	<b>70</b>

Q1. Calculate the average for the given, find out which year has the maximum average?

- (a) \$ 63      (b) \$ 65      (c) \$ 67      (d) \$ 69

Q2. Calculate the percentage increase in price of oil from Jun for Each year. Then identify the highest percentage increase?

- (a) 23%      (b) 21%      (c) 22%      (d) 20%

Q3. Determine the total price of the oil from Jan to March of each year. Then, find the highest total for these months?

- (a) \$ 182      (b) \$ 186      (c) \$ 184      (d) \$ 188

Q4. Calculate the month-over-month increase in the price of oil for each year from Jan to Feb. Then, identify the smallest increase?

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

Directions for questions (5-8): 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

Q5. 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

Q6. 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

Q7. 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

Q8. 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

Q9. There are 5000 students in a school. The next year it was found that the number of boys and girls increased by 10% and 15% respectively making the total number of students in school as 5600. Find the number of girls originally in the school?

- (a) 2200      (b) 2400      (c) 2000      (d) 2800

Q10. A Sales Executive gets a commission on total sales at 8%. If the sale is exceeded Rs.10,000 he gets an additional commission as a bonus of 4% on the excess of sales over Rs.10,000. If he gets the total commission of Rs.950, then the bonus he received is?

- (a) 200      (b) 150      (c) 100      (d) 50

Q11. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years?

- (a) 24      (b) 27      (c) 40      (d) Cannot be determined

Q12. The price of silver-biscuit is directly proportional to the square of its weight. A person broke down the silver-biscuit in the ratio of 3: 2: 1, and faces a loss of Rs 4620. Find the initial price of silver-biscuit.

- (a) 7520      (b) 7530      (c) 7450      (d) 7560

Q13. A dishonest shopkeeper professes to sell pulses at the 20% profit, also he uses a false weight of 800gm for a kg, His actual gain is \_\_\_\_%.

- (a) 25%      (b) 15%      (c) 20%      (d) 50%

Q14. Eight people are planning to share equally the cost of a rental car. If one person withdraws from the arrangement and the others share equally the entire cost of the car, then the share of each of the remaining persons increased by:

- (a) 1/7      (b) 1/8      (c) 1/9      (d) 7/8

Q15. In a regular week, there are 5 working days and for each day, the working hours are 8. A man gets Rs. 2.40 per hour for regular work and Rs. 3.20 per hours for overtime. If he earns Rs. 432 in 4 weeks, then how many hours does he work for ?

- (a) 160      (b) 175      (c) 180      (d) 195

Q16. A salary is 40 percent more than B's salary is 30 percent less than C. If the difference between the salary of C and A is 1200 rupees, then what is the monthly income of C

- (a) 80000      (b) 70000      (c) 90000      (d) 60000

Q17. If Suresh distributes his pens in the ratio of 1/2 : 1/4 : 1/5 : 1/7 between his four friends A, B, C and D, then find the total number of pens Suresh should have?

- (a) 153      (b) 150      (c) 100      (d) 125

Q18. Due to an increase in taxes on electronic devices, the price of a 46" LED flat TV screen has increased to \$845, which is a 30% increase from the original price. What was the original price of the TV prior to the increase?

- (a) \$ 625      (b) \$ 650      (c) Data inadequate      (d) None of these

Q19. Look at this series: 8, 6, 9, 23, 87, ... What number should come next?

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

Q20. A shopkeeper sells some toys at Rs. 250 each. What percent profit does he make? To find the answer, which of the following information given in Statements I and II is/are necessary?

I. Number of toys sold

II. Cost price of each toy

- (a) Only I is necessary                      (b) Only II is necessary                      (c) Both I and II are necessary  
(d) Either I or II ins necessary                      (e) None of these

Q21. In an examination, 50% of the students passed in Science and 75% passed in Social, while 20% students failed in both the subjects. If 270 students passed in both subjects, find the total number of students who appeared in the exam?

- (a) 500                      (b) 600                      (c) 700                      (d) 800

Q22. 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

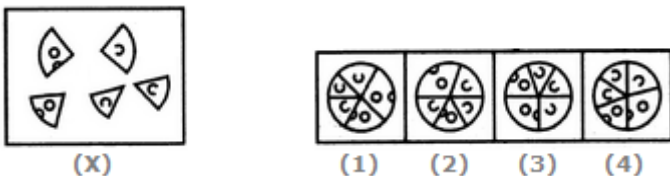
Q23. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is:

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

Q24. A man's speed with the current is 15 km/hr and the speed of the current is 2.5 km/hr. The man's speed against the current is:

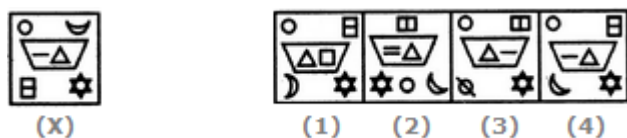
- (a) 8.5 km/hr                      (b) 9 km/hr                      (c) 10 km/hr                      (d) 12.5 km/hr

Q25. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



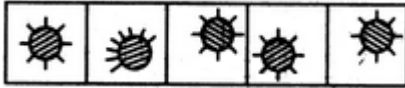
- (a) 1                      (b) 2                      (c) 3                      (d) 4

Q26. Select the alternative in which the specified components of the key figure (X) are found.



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

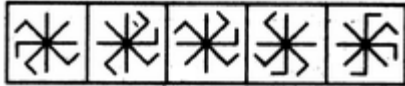
Q27. Choose the figure which is different from the rest.



(1) (2) (3) (4) (5)

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

Q28. Choose the figure which is different from the rest.



(1) (2) (3) (4) (5)

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

Q29. A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:

(a) 14 years (b) 19 years (c) 33 years (d) 38 years

Q30. In a college, 200 students are randomly selected. 140 like tea, 120 like coffee and 80 like both tea and coffee. How many students like neither tea, nor coffee ?

(a) 30 (b) 20 (c) 10 (d) 5

Directions for questions (31-33): Out of 10,000 persons surveyed, 3700 liked Mumbai, 4000 liked Bangalore, and 5000 liked Chennai. Seven hundred people liked Mumbai and Bangalore, 1200 liked Mumbai and Chennai and 1000 liked Bangalore and Chennai. Each person liked at least one of the three.

Q31 Find the number of people who liked all the three cities.

(a) 200 (b) 300 (c) 100 (d) 400

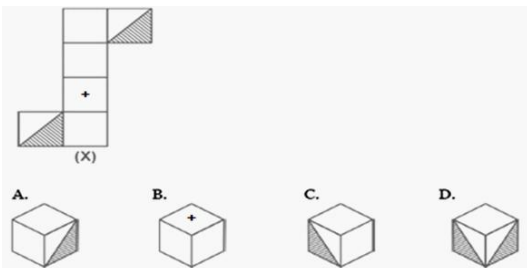
Q32. Find the number of people who like only Bangalore and Chennai ?

(a) 900 (b) 700 (c) 800 (d) 600

Q33. Find the number of people who like at least two cities ?

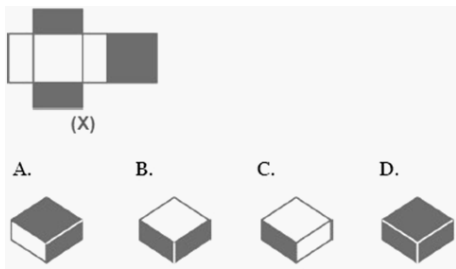
(a) 1900 (b) 2700 (c) 1800 (d) 2500

Q34. Choose a box which is similar to the box formed from the given sheet of paper.



(a) B & D only (b) A & D only (c) A & C only (d) C & D only

Q35. Choose a box that is similar to the box formed from the given sheet of paper.



- (a) A & C only      (b) A & D only      (c) B & C only      (d) C & D only

Q36. Find the wrong term in the series:

2, 9, 28, 65, 126, 216, 344

- (a) 9      (b) 216      (c) 65      (d) None of these

Q37. Find out the capital required to earn a monthly interest of Rs. 210 at 7 % simple interest.

- (a) Rs. 24000      (b) Rs. 30000      (c) Rs. 18000      (d) Rs. 36000      (e) Rs. 72000

Q38. A merchant a cloth at a rate of Rs. 110 per metre and receives 5 cm length of cloth free for every 100 cm length of cloth purchased by him. He sells the same cloth at a rate of Rs. 110 per metre but cheats his customers by giving 95cm of cloth for every 100 cm purchased by customers. If the merchant provides a 5 metre discount, the resulting profit earned by him is:

- (a) 4.2%      (b) 9.7 %      (c) 15.5%      (d) 16%

Q39. Alcohol and water in two vessels A and B are in the ratio 5 : 3 and 5 : 4 respectively. In what ratio, the liquids in both the vessels be mixed to obtain a new mixture in vessel C in the ratio 7 : 5?

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

Q40. Two sales people, Meena and Tina, get their sales commissions based on the number of items sold each month. Their total sales commission amounts to 56100 in a particular month. If Meena got her commission 120% higher than Tina, how much commission did Tina earn?

- (a) 17531      (b) 17575      (c) 26430      (d) 26462

### Answer key

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