

TCS mock - 7

Q1. How many ways can the letters of the word "MISSISSIPPI" be arranged ?

- (a) 11! (b) $11!/(4! \times 4! \times 2!)$ (c) $10!/8!$ (d) $10!/(4! \times 4!)$

Q2. In a certain code language TAMIL is coded as 39412, SONU is 3561. What will be code for KERALA in same language?

- (a) 152139 (b) 6796 (c) 139152 (d) 131952

Q3. In a cricket match there are three types of tickets say A, B and C each costing Rs. 1000, Rs. 500 and Rs. 200 respectively. The ratio of the number of tickets sold of category A, B and C is 3 : 2 : 5. If the total collection from selling the tickets is Rs. 2.5 crore. Find the total number of tickets sold.

- (a) 40000 (b) 45000 (c) 50000 (d) 60000

Q4. A sum of Rs. 20,000 is rent partly at 0.8% and remaining at 1% per annum. If the yearly interest on the average is 0.92%, the two parts are

- (a) Rs. 4000, Rs. 6000 (b) Rs. 8000, Rs. 12000 (c) Rs. 10000, Rs. 10000 (d) Rs. 11000, Rs. 9000

Q5. The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years older. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. Find out the average age of the team.

- (a) 21 years (b) 23 years (c) 24 years (d) 20 years

Q6. Fresh fruit contains 76% water and dry fruit contains 20% water. How much dry fruit can be obtained from 200 kg of fresh fruits ?

- (a) 20 (b) 30 (c) 40 (d) 60

Q7. A completed an assignment in 40 days. How many days will B take to complete the same work if he is 25% more efficient than A?

- (a) 8 days (b) 12 days (c) 16 days (d) 20 days (e) 32 days

Q8. Tanya spends 20% of her monthly salary on food and 15% on the education of her children. Of the remaining salary, she spends 40% on entertainment and 20% on conveyance. She is now left with ₹10400. What is the monthly salary of Divya?

- (a) ₹32,000 (b) ₹30,200 (c) ₹40,000 (d) None of these

Q9. 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

Q10. Karan and Danish invested in a business in the ratio of 5 : 6 respectively. After four months, Mohan entered the business with an investment of capital equal to that of Danish. What will be the ratio of their profits at the end of the year?

- (a) 15 : 12 : 14 (b) 15 : 12 : 7 (c) 1 : 2 : 3 (d) None of the above

Q11. A diamond weighing 35 grams cost Rs. 12,250 is cut down into two pieces having weights in the ratio of 5 : 2. If the price directly proportional to the square of the weight then find the loss incurred.

- (a) Rs. 5000 (b) Rs. 6000 (c) Rs. 5500 (d) Rs. 5700

Q12. Two boat are travelling with speed of 36 km/hr and 54 km/hr respectively towards each other. What is the distance (in metres) between the two boats 5 second before they collide?

- (a) 110 (b) 115 (c) 125 (d) 105

Q13. By replacing an old member by a new member, it was found that the average age of five members of a club is the same as it was 4 years ago. What is the difference between the ages of the replaced and the new member ?

- (a) 12 (b) 20 (c) 14 (d) 15

Q14. On dividing a number by 27, we get 247 as quotient and 0 as remainder. On dividing the same number by 47, what will the remainder?

- (a) 42 (b) 43 (c) 45 (d) None of these

Q15. A shopkeeper cheats to the extent of 10% while buying and selling, by using false weights. His total gain is.

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

Q16. The average number of goals scored by 15 selected players in EPL is 16. The maximum number of goals scored by a player is 20 and the minimum is 12. The goals scored by players is between 12 and 20. What can be the maximum number of players who scored at least 18 goals?

- (a) 10 (b) 5 (c) 9 (d) 6 (e) None of these

Q17. 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

Q18. What is the compound interest on Rs. 20000 at 10% per annum for 1 year 6 months, compounded half yearly?

- (a) Rs. 3215.5 (b) Rs. 3200 (c) Rs. 3152.5 (d) None of the above

Q19. A cricketer is walking at a speed of 16.5 kmph and reaches Academy late by 10.5 minutes. If the cricketer increased his speed to 33 kmph and reaches Academy 10.5 minutes early. Find the correct time to reach school.

- (a) 21.5 minutes (b) 35 minutes (c) 31.5 minutes (d) None of the above

Q20. If the sum of two numbers is 55 and the H.C.F. and L.C.M. of these numbers are 5 and 120 respectively, then the sum of the reciprocals of the numbers is equal to:

- (a) 55/601 (b) 601/55 (c) 11/120 (d) 120/11

Q21. In a lottery, there are 20 prizes and 55 blank. A lottery is drawn at random. What is the probability of getting a prize?

- (a) 1/10 (b) 4/11 (c) 4/15 (d) None of these

Directions Q22-23 : In each question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:

- (A) If only conclusion I follows
- (B) If only conclusion II follows
- (C) If either I or II follows
- (D) If neither I nor II follows and
- (E) If both I and II follow.

Q22. **Statements:** All bags are cakes. All lamps are cakes.

Conclusions:

1. Some lamps are bags.
2. No lamp is bag.

- (a) Only conclusion I follows (b) Only conclusion II follows (c) Either I or II follows
(d) Neither I nor II follows (e) Both I and II follow

Q23. **Statements:** All mangoes are golden in colour. No golden-coloured things are cheap.

Conclusions:

1. All mangoes are cheap.
2. Golden-coloured mangoes are not cheap.

- (a) Only conclusion I follows (b) Only conclusion II follows (c) Either I or II follows
(d) Neither I nor II follows (e) Both I and II follow

Direction Q (24-27): Each of the following questions is based on the following information:

1. Six flats on a floor in two rows facing North and South are allotted to P, Q, R, S, T and U.

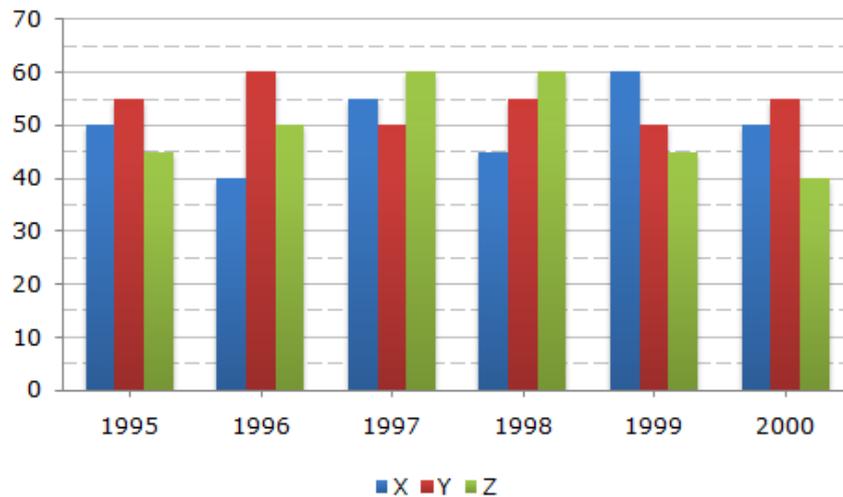
2. Q gets a North facing flat and is not next to S.
3. S and U get diagonally opposite flats.
4. R next to U, gets a south facing flat and T gets North facing flat.
- Q24. If the flats of P and T are interchanged then whose flat will be next to that of U?
(a) P (b) Q (c) R (d) T
- Q25. Which of the following combination get south facing flats?
(a) QTS (b) UPT (c) URP (d) Data is inadequate
- Q26. The flats of which of the other pair than SU, is diagonally opposite to each other?
(a) QP (b) QR (c) PT (d) TS
- Q27. Whose flat is between Q and S?
(a) T (b) U (c) R (d) P
- Q28. In what ratio two kinds of sugar must be mixed into one at Rs. 20/kg and another at Rs. 30/kg, so that after selling the mixture at Rs. 28/kg, there is a profit of 16.66%?
(a) 2 : 3 (b) 3 : 2 (c) 19 : 6 (d) None of these
- Q29. If 100 cats kill 100 mice in 100 days, then 4 cats would kill 4 mice in how many days ?
(a) 1 day (b) 4 days (c) 40 days (d) 100 days
- Q30. How many ways can the letters of the word "ORANGE" be arranged , in such a way that O and A are never together ?
(a) 240 (b) 360 (c) 480 (d) 600
- Q31. What is the probability of getting a sum 9 from two throws of a dice?
(a) 1/6 (b) 1/8 (c) 1/9 (d) 1/12
- Q32. Find the next number in the series: 12, 7, 21, 16, 30, ?
(a) 35 (b) 40 (c) 25 (d) 45
- Q33. Find the missing term in the series: ?, 100, 150, 375, 1312.5
(a) 4593.75 (b) 5906.25 (c) 5225.25 (d) None of these
- Q34. In a certain code '754' means 'lake is sea' 582 means 'ocean is river' and 809 means 'ocean and pond' then what will be the code for river :
(a) 5 (b) 2 (c) 8 (d) 7

Q35. The number of observations smaller than _____ is the same as the number of observations larger than it.

- (a) Median (b) Mode (c) Mean (d) None of the above

Direction for (Q36-40) A soft drink company prepares drinks of three different flavours - X, Y and Z. The production of three flavours over a period of six years has been expressed in the bar graph provided below.

Production of Three Different Flavours X, Y and Z by a Company over the years (in lakh bottles)



Q36. The total production of flavour Z in 1997 and 1998 is what percentage of the total production of flavour X in 1995 and 1996?

- (a) 96.67% (b) 102.25% (c) 115.57% (d) 133.33%

Q37. For which flavour was the average annual production maximum in the given period?

- (a) X only (b) Y only (c) Z only (d) X and Y

Q38. What is the difference between the average production of flavour X in 1995, 1996 and 1997 and the average production of flavour Y in 1998, 1999 and 2000?

- (a) 50,000 bottles (b) 80,000 bottles (c) 2,40,000 bottles (d) 5,00,000 bottles

Q39. What was the approximate decline in the production of flavour Z in 2000 as compared to the production in 1998?

- (a) 50% (b) 42% (c) 33% (d) 25%

Q40. For which of the following years the percentage of rise/fall in production from the previous year is the maximum for the flavour Y?

- (a) 1996 (b) 1997 (c) 1998 (d) 1999

Answer key

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