

## Talisma Placement Paper Questions and Answers

**Q1.** A Toy train can make 10 sounds. Sound changes after every 4 mins, now train is defective and can make only 2 sounds. Find probability that same sound is repeated 5 times consecutively (1 out of)?

**ANS:**  $1/32$

**Q2.** 4 years before Pauls age is 3 times the Alice age and the present age of Paul is 6 times the Alice. What is the present Pauls age?

**Q3.** 10 people are there, they are shaking hands together. How many hand shakes possible, if they are in no pair of cyclic sequence?

**ANS:** 9

**Q4.** Peter and Paul are two friends. The sum of their ages is 42 years. Peter is twice as old as Paul was when Peter was as old as Paul is now. What is the present age of Peter?

**Q5.** Difference between two numbers is 4 and their product is 17. Then find the sum of their squares.

**Q6.** Out of 7 children the youngest is boy, then find the probability that all the remaining children are boys.

**ANS:**  $1/2^6 = 1/64$

**Q7.** A man goes 50 km North, then turned left walked 40 km, then turned right. In which direction he is in?

**ANS:** North

**Q8.** A pizza shop made pizzas with two flavours. At home there are N flavours in that M flavours are taken to make pizza. In how many ways they can make pizza?

**Q9.** The three sides of a triangle are given. 16, 14, 21 cms and this triangle is converted into a square. So what will be the area of the square generated?

**ANS:** 1 side of a square =  $(14+16+21)/4$ . Then solve: Area = side<sup>2</sup>.

**Q10.** A book contains 40 sheets and each sheet contain 40 statements and it says that most of them are false?

- a) All odds are false
- b) All evens are false
- c) Neither odd nor even are false
- d) None Mumbai build in

**ANS:** b

**Q11.** Mumbai building dept decided to give numbers to building. 1-100 numbers are given to buildings long story. Find how many number of 2s were used while numbering the buildings.

**ANS:** 2,12,20,21,22,23,24,25,26,27,28,29,32,42,52,62,72,82,92

**Q12.** A tank is filled 1 liter in a hour and 2 ltrs in 2hrs 3 ltrs in 3 hrs so on. 1/3rd is filled in 2nd hr. How much time will it take to fill the tank?

**ANS:** Let the capacity of tank be x then  
 $\frac{1}{3} * x = 2$  (as 1/3rd of tank is filled in 2 hrs that is 2 liters)  
 $x = 6$  (from above eqn i.e, tanks capacity is 6 litres)

**Q13.** An equation of the form  $4x+6y-2z=32$ . Find the difference between  $x$  intercept and  $z$  intercept?

**ANS:**  $x/a+y/b+z/c$

**Q14.** In a question, last part has, the ages of two people has the ratio of 6:5 and by adding the numbers we get 55, after how many years the ratio would be 8:7?

**Q15.** A, B, C, D, E are there. Among A, B, C are boys and D, E are girls. D is to the left of A and no girl sits at the middle and at the extremes. Then what is the order of their sittings?

**Q16.** In a market 4 man are standing the average age of the four men before 4 yrs is 45, after some days one man is added and his age is 49. What is the average age of all?

**Q17.** A horse chases a pony 2 hours after the pony runs. Horse takes 4 hours to reach the pony. If the average speed of the horse is 81 kmph, what is the average speed of the pony?

**Q18.** Question based on  $V=I \cdot R$ .

**Q19.** 20 men and 20 women are there, they dance with each other, is there possibility that 2 men are dancing with same women and vice versa?

**ANS:** Never

**Q20.** In school there are some bicycles and 4 wheeler wagons. One Tuesday there are 234 wheels in the campus. How many bicycles are there?