

TCS NQT MOCK TEST PART II

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*Required

Quantitative Aptitude

15 questions

In an arithmetic progression the first term is 10 and its common difference * 2 points is 8. If the general term is a_n , find $a_{19} - a_{11}$

- ☐ 65
- ☒ 64
- ☐ 61
- ☐ 63

If θ be acute angle and $\cos\theta = 15/17$, then the value of $\cot(90^\circ - \theta)$ is * 2 points

- ☐ $2\sqrt{8/15}$
- ☒ $8/15$
- ☐ $\sqrt{2/7}$
- ☐ $8\sqrt{7/17}$

A group of students decided to collect as many paise from each member * 2 points of group as is the number of members. If the total collection amounts to Rs. 59.29, the number of the member is the group is:

- ☐ 57
- ☐ 67
- ☒ 77
- ☐ 87



In the following series one number is wrong. Find out the wrong number. 15, 45, 7.5, 20.5, 3.75, 11.25, 1.875

* 2 points

- ☐ 45
- ☒ 20.5
- ☐ 11.25
- ☐ 1.875

Aditya and Bhushan invested 10000 each in scheme A and scheme B respectively for 3 years. Scheme A offers Simple interest @ 12% per annum and scheme B offers compound interest @ 10%. After 3 years, who will have larger amount and by how much?

* 2 points

- ☐ Aditya, 280
- ☐ Bhushan, 280
- ☒ Aditya, 290
- ☐ Bhushan, 290

The sum of the digits of a 2-digit number is 11. If we add 45 to the number, the new number obtained is a number formed by interchange of the digits. What is the number?

* 2 points

- ☒ $x = 3$ and $y = 8$
- ☐ $x = 5$ and $y = 8$
- ☐ $x = 4$ and $y = 8$
- ☐ $x = 8$ and $y = 3$

40% of the women are above 30 years of age and 80 percent of the women are less than or equal to 50 years of age. 20 percent of all women play basketball. If 30 percent of the women above the age of 50 plays basketball, what percent of players are less than or equal to 50 years?

* 2 points

- ☒ 70%
- ☐ 72%
- ☐ 73%
- ☐ 75%



In a mixture of milk and water of volume 30 litres, the ratio of milk and water is 7 : 3. How much quantity of water is to be added to the mixture to make the ratio of milk and water 1 : 2?

* 2 points

- ☐ 30 liters
- ☐ 32 liters
- ☒ 33 liters
- ☐ 35 liters

It takes 6 workers a total of 10 hours to assemble a computer, with each working at the same rate. If six workers start at 9.00 am, and one worker per hour is added beginning at 3.00 pm, at what time will the computer assembled?

* 2 points

- ☐ 5 pm
- ☐ 4 pm
- ☒ 6 pm
- ☐ 7 pm

There is meeting of 20 delegates that is to be held in a hotel. In how many ways these delegates can be seated along a round table, if three particular delegates always seat together?

* 2 points

- ☒ 17! 3!
- ☐ 18! 3!
- ☐ 17! 4!
- ☐ 18! 4!



The length of a rectangle is $\frac{3}{5}$ th of the side of a square. The radius of a circle is equal to side of the square. The circumference of the circle is 132 cm. What is the area of the rectangle, if the breadth of the rectangle is 15 cm? * 2 points

- ☒ 189 cm²
- ☐ 188 cm²
- ☐ 187 cm²
- ☐ 185 cm²

Arun buys 800 shares, each par value Rs. 10 of a company which pays an annual dividend of 15% at such a price that he gets 12% on his investment. Find the market value of a share. * 2 points

- ☒ 12.5
- ☐ 12
- ☐ 14.5
- ☐ 15

The probability that a bullet fired from a point will strike the target is $\frac{3}{4}$. 5 such bullets are fired simultaneously towards the target from that very point. What is the probability that the target will be strike? * 2 points

- ☐ $(\frac{255}{256})$
- ☒ $(\frac{245}{256})$
- ☐ $(\frac{235}{256})$
- ☐ $(\frac{225}{256})$

Train X starts at 7.00 a.m. from a certain station with A Km/h and train Y starts at 9.30 a.m. from the same station at B km/h. If $B > A$, then how many hours will train Y take to overtake train X? * 2 points

- ☒ $\frac{5A}{2(B-A)}$ hrs
- ☐ $\frac{2A}{5(B-A)}$ hrs
- ☐ $\frac{2(B-A)}{5A}$ hrs
- ☐ $\frac{5(B-A)}{2A}$ hrs



If instead of 365 days, a year was of 400 days and a leap year was of 450 days, then what will be the day on 1st day of year 2031 if 1st day of year 2021 is a Thursday given that a week still has 7 days. * 2 points

- ☐ Monday
- ☒ Tuesday
- ☐ Wednesday
- ☐ Can't be determined


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