**Mock TCS #1**

Q.1 In particular language if A=0, B=1, C=2,…….. .. , Y=24, Z=25 then what is the value of ONE+ONE (in the form of alphabets only)

a. BDAI b. ABDI c. DABI d. CIDA

Q.2 Find the number of perfect squares in the given series 2013,2020,2027,................, 2300 (Hint 44^2=1936)

a. 1 b. 2 c. 3 d. Can’t be determined

Q.3 If f(x) = sum of all the digits of x, where x is a natural number, then what is the value of f(101)+f(102)+f(103)+ .. +f(200)?

a.1000 b.784 c.999 d.1001

Q.4 The perimeter of a equilateral triangle and regular hexagon are equal. Find out the ratio of their areas?

a. 3:2 b. 2:3 c. 1:6 d. 6:1

Q.5 What is the remainder of (32^31^301) when it is divided by 9?

a. 3 b. 5 c. 2 d. 1

Q.6 What is the distance between two parallel chords of length 24 cm and 32 cm in a cirle of radius 20 cm ?

(a) 4 or 28 (b) 1 or 7 (c) 2 or 14 (d) 3 or 21

Q.7 Which of the following numbers must be added to 5678 to give a reminder 35 when divided by 460?

a. 980 b. 797 c. 955 d. 618

Q.8 A girl entered a store and bought x flowers for y dollars (x and y are integers). When she was about to leave, the clerk said, “If you buy 10 more flowers I will give you all for $ $2, and you will save 80 cents a dozen”. The values of x and y are:

a. (15,1) b. (10,1)

c. (5,1) d. Cannot be determined from the given information.

Q.9 If a number is divided by 357 the remainder is 5, what will be the remainder if the number is divided by 17?

a. 9 b. 3 c. 5 d. 7

Q.10 In how many possible ways can write 3240 as a product of 3 positive integers a,b and c.

a. 450 b. 420 c. 350 d. 320

Q.11 How many positive integers less than 500 can be formed using the numbers 1,2,3,and 5 for digits, each digit being used only once.

a. 52 b. 68 c. 66 d. 34

Q.12 11, 23, 47, 83, 131, . What is the next number?

a. 145 b. 178 c. 176 d. 191

Q.13 Crusoe hatched from a mysterious egg discovered by Angus, was growing at a fast pace that Angus had to move it from home to the lake. Given the weights of Crusoe in its first weeks of birth as 5, 15, 30,135, 405, 1215, 3645. Find the odd weight out.

a) 3645 b) 135 c) 30 d) 15

Q.14 A can complete a piece of work in 8 hours, B can complete in 10 hours and C in 12 hours. If A,B, C start the work together but A laves after 2 hours. Find the time taken by B and C to complete the remaining work.

a) 2 (1/11) hours b) 4 (1/11) hours

c) 2 (6/11) hours d) 2 hours

Q.15 The numbers 272738 and 232342, when divided by n, a two digit number, leave a remainder of 13 and 17 respectively. Find the sum of the digits of n?

a. 7 b. 8 c. 5 d. 4

Q.16 17 × 8 m rectangular ground is surrounded by 1.5 m width path. Depth of the path is 12 cm. Gravel is filled and find the quantity of gravel required.

a. 5.5 b. 7.5 c. 6.05 d. 10.08

Q.17 By what number 2088 be divided so that it will become a perfect square?

a. 55 b. 75 c. 58 d. 108

Q.18 When Usha was thrice as old as Misha, her sister Asha was 25. When misha was half as old as Asha, then her sister Usha was 34. Their ages add to 100. How old is Usha?

a) 37 b) 43 c) 40 d) 44

Q.19 What is in the 200th position of 1234 12344 123444 1234444....?

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

Q.20 There are equal number of boys and girls in a class. If 12 girls entered out, twice the boys as girls remain. What was the total number of students in a class?

a) 47 b) 43 c) 40 d) 48

Q.21 There are 120 male and 100 female in a society. Out of 25% male and 20% female are rural. 20% of male and 25% of female rural people passed in the exam. What % of rural students have passed the exam?

a) 37 b) 43 c) 40 d) 44

Q.22 1/7 th of the tank contains fuel. If 22 litres of fuel is poured into the tank the indicator rests at 1/5th mark. What is the quantity of the tank?

a) 375 b) 430 c) 340 d)375

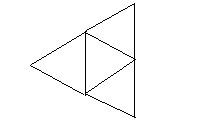
Q.23 A series of book was published at seven year intervals. When the seventh book was published the total sum of publication year was 13, 524. First book was published in?

a. 1911 b. 1910 c. 2002 d. 1932

Q.24 A tree of height 36m is on one edge of a road broke at a certain height. It fell in such a way that the top of the tree touches the other edge of the road. If the breadth of the road is 12m, then what is the height at which the tree broke?

a. 16 b. 24 c. 12 d. 18

Q.25 The sticks of same length are used to form a triangle as shown below. If 87 such sticks are used then how many triangles can be formed?



a) 37 b) 43 c) 40 d) 44

Q.26. What is the greatest power of 143 which can divide 125! exactly

a. 12 b. 11 c. 8 d. 9

Q.27. Three containers A, B and C are having mixtures of milk and water in the ratio of 1:5, 3:5, 5:7 respectively. If the capacities of the containers are in the ratio 5:4:5, find the ratio of milk to water, if all the three containers are mixed together.

a. 53:115 b. 53:113 c. 54:115 d. 54:113

Q.28. 8 year old Eesha visited her grandpa. He gave her this riddle. I started working at 13. I spent 1/6 of my working life in a factory. I spent 1/4 of my working life in an office, and I spent 1/4 of my working life as a school caretaker. For the last 32 years of my working life I've been doing social service. How old am I?

a. 109 b. 102 c. 105 d. 113

Q.29. X takes 4 days to complete one-third of a job,Y takes 3 days to complete one-sixth of the same work and Z takes 5 days to complete half the job.If all of them work together for 3 days and X and Z quit, how long will it take for Y to complete the remaining work done.

a. 6 days b. 7 days c. 5.1 days d. 8.1 days

Q.30. One day, Eesha started 30 minutes late from home and reached her office 50

minutes late, while driving 25% slower than her usual speed. How much time in minutes does Eesha usually take to reach her office from home?

a. 20 b. 40 c. 60 d. 80