**Round 1**

**Quants**

1. In an exam, there were 25 math qns and 75 nonmath qns. To answer a math qn, a candidate was supposed to spend twice the time he spends to answer a nonmath qn. If the entire exam duration was 2 hrs, find the time he spent on the math qns.

2. In 50 litres of milk, there was 10% water. how much water shud be added more to this mixture to make the water 25%?

3. a group of people went to a restaurant and the total bill was Rs. 2400. two of the them forgot to bring the wallet. so the others contributed an additional Rs.100 each to pay the bill. how many of them went to restaurant?

4. A fruit seller sells half the apples she has plus half an apple to the customer she meets. If she had no apples remaining with her at the end of meeting 4 customers, how many apples did she have initially?

5. The population of a city A is 60000 at present. It decreases at a rate of 80ppl/yr. Another city B has a population of 42000 at present whose population increases at a rate of 120ppl/yr. After how many years will both the cities have the same Population?

6. Two trains travelling towards each other on the same track at speeds 60km/hr. A fly is in btw the two traveling at a speed of 90km/hr. The fly starts from the engine of one train and flies to the engine of another train and returns back, and repeats the same till the two trains clash. Until the two trains clash, the fly flew a total distance of 180kms. How far away were the trains in the beginning?

7. A group of ppl went for a picnic. during their stay there, it rained for 15 days in all. but, if it rained in the morn, they had a clean evening and vice versa. If they enjoyed 11morns and 12 evenings in total, how many days did they stay ?

8. james and frank had money. if square of frank’s money and james money equals 176 and square of james money and frank’s money is 62. How much money does each have?

9. the cost of 3 chicken and 1 duck equals 2 geese. 3 ducks, 2 chicken and 1 goose cost 25$. If the cost of each bird was an integer, what is the individual cost of each

**C programming (write the output)**

**1.** Program on command line arguments

2. Program on Pointer... 1D, 2D...

3. Program on Macros

4. Program on cascaded printf... printf(“%d”, printf(“%d”, printf(“%d”,”Hello World”)));

5. Program on Single line loops like for(int i=0; i<15; i++);

6. Program on string manipulation

ALL THE QUESTIONS ARE PREDICT THE OUTPUT... ALL ARE FILL UPS, NO OPTIONS WILL BE GIVEN

**Round 2**

**Coding**

1. The **digital root** (also called **repeated digital sum** ) of a number is a single digit

value obtained by an iterative process of summing digits. Digital sum of 65536 is

7, because 6+5+5+3+6=25 and 2+5 = 7. Write a program that takes an integer

as input and prints its digital root.

2. ur program must print the following output if the input was ‘D’. Analyse the

pattern and write a program to print the right output for any such char as input

A

ABA

ABCBA

ABCDCBA

ABCBA

ABA

A

3. Write a function which takes an array as input and produces another array as

output. The function should do the product of all elements in the array with the

exception of the element with the current index.

a. eg: [3, 1, 4, 2] => [8, 24, 6, 12]

4. Program to convert the string from AAAAABBBBBCDDDE => A5B5CD3E

5. Given a 2D

Matrix of chars and a string, find whether that string can be traced in

that matrix. u can move up, down, left or right between the chars in the matrix.

Example:

Matrix:

a o o f p d

f w l x r y

a k l o w a

String: follow

the program must print “true” bcoz

a o o f p d

f w l x r y

a k l o w a

6. Two rectangles with cross dimensions are given. Write the condition to find whether both the rectangles are intersecting or not