<h1 style="text-align:center">COMPUTER APPLICATION</h1>
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CLASS X

SAMPLE PAPER

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1.

   a. Give one example each of a primitive data type and a composite data type.

   b. Complete the code below to create an object of Scanner class.

   Scanner sc= _____ Scanner (_____)

   c. Write an expression in java for $a^3 - y^5$

   d. What is the use of default in a switch?

   e. Write a main difference between while loop & do while loop

   f. State the purpose and return data type of the following String functions:-

   i)   trim()

   ii)   charAt( )

2. Write a program to generate the following **pattern**

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

3.. Write a class in java to enter any number and print if it is a perfect number.[Hint: a number is said to be perfect if it is equal to sum of all its factors ex, 6=1+2+3, hence 6 is perfect number]

4. Using the switch statement in Java, write a program to display the name of the city according to the user's choice.

D — Delhi, M — Mumbai, K — Kolkata, C — Chennai

5. Mayur Transport Company charges for parcels as per the following tariff:

Weight	Charges
Upto 10 Kg.	Rs. 30 per Kg.
For the next 20 Kg.	Rs. 20 per Kg.
Above 30 Kg.	Rs. 15 per Kg.

Write a program in Java to calculate the charge for a parcel, taking the weight of the parcel as an input.