Day : Friday			**Time :** 10:00 AM-01:00 PM
Date : 07-01-2022		**W-21247-2021**	**Max.Marks** 60

N.B.:

1) Attempt **ANY FIVE** questions.

2) Figures to the right indicate **FULL** marks.

Q.1 **a)** Explain different types of Arrays with examples. **[06]**

b) Outline the concept of OOP Programming in detail. **[06]**

Q.2 **a)** Explain block diagram of computer in detail with proper diagram. **[06]**

b) Define Algorithm and its importance. Explain all the symbols used in flow chart. **[06]**

Q.3 **a)** Convert the following: **[06]**
i) $(123)_{10} = (X)_2$ ii) $(1001011)_2 = (X)_{10}$

b) Explain different types of sorting techniques used in Array. **[06]**

Q.4 **a)** Explain different types of control and looping structure used in programming. **[06]**

b) Discuss in detail classes and objects by giving an example. **[06]**

Q.5 **a)** Explain the concept of function Overloading and Overriding. **[06]**

b) Explain all DDL and DML statement used in SQL. **[06]**

Q.6 Write short notes on **ANY THREE** of the following: **[12]**
a) Compilers and Interpreters
b) Constructor and destructors
c) Memory variables
d) DBMS
e) GUI v/s. Console Programming

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