

Total No. of Questions : 4]

SEAT No. :

**PF208**

[Total No. of Pages : 2

**APR-26/SE/Insem-254**

**S.E. (Electronics/E & TC Engineering) (Electronics & Computer Engg.)/(Electronics Engg./VLSI Design & Technology)/(Electronics & Communication-Advanced Communication Technology) (Insem)**

**OBJECT ORIENTED PROGRAMMING  
(2019 Pattern) (Semester-IV) (204194)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2 and Q.3 or Q.4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Assume suitable additional data, if necessary.*

- Q1)** a) List the features of Object Oriented programming and explain any two features in detail with the help of suitable example. **[6]**
- b) List different types of operators in C++ and give examples of each type. Explain the use of New and Delete operator. **[4]**
- c) Write a program in C++ to perform swapping of two numbers without using third (temporary) variable. **[5]**

OR

- Q2)** a) Compare argument passing methods: call by value and call by reference. **[5]**
- b) What are Inline functions? Write syntax and give example of inline function. **[5]**
- c) Explain the scope resolution operator and its various uses through suitable examples. **[5]**

**P.T.O.**

- Q3)** a) What is constructor and destructor? Explain in short with example. List types of constructors. [5]
- b) Explain terms class and object also write the declaration syntax for both. [5]
- c) Explain member functions within a class in C++ with suitable example. [5]

OR

- Q4)** a) What is This pointer? Explain its use through suitable program. [5]
- b) Explain concept of static data members, static member functions in C++. [5]
- c) Write a C++ program to illustrate the concept of parameterized constructor. [5]

