Total No. of Questions—**8**]   [Total No. of Printed Pages—**2**

Seat No.	

[5668]-185

S.E. (Computer) (I Semester) EXAMINATION, 2019
OBJECT ORIENTED PROGRAMMING
(2015 PATTERN)

Time : Two Hours   **Maximum Marks : 50**

N.B. **:—**   (*i*)   Answer question **1** *or* **2**, **3** *or* **4**, **5** *or* **6** and **7** *or* **8**.

(*ii*)   Neat diagrams must be drawn wherever necessary.

(*iii*)   Figures to the right indicate full marks.

(*iv*)   Assume suitable data, if necessary.

1.   (*a*)   Compare procedure oriented programming *Vs.* object oriented programming.   [4]

(*b*)   What is the use of this pointer ?   [2]

(*c*)   Write short notes on types of Inheritance with respect to :   [6]

(*i*)   Single

(*ii*)   Multiple

(*iii*)   Hierarchical

Or

2.   (*a*)   Explain the features of Object-oriented Programming.   [6]

(*b*)   What is Inline function ? Explain with suitable program. [4]

(*c*)   Explain visibility modes in Inheritance.   [2]

3.   (*a*)   What is function overloading ? Explain with a suitable example.[4]

(*b*)   What is static member function ?   [3]

(*c*)   What is template ? Write a program to handle addition of two numbers using template.   [6]

P.T.O.

Or

4. (*a*) Write a function template for finding the minimum value contained in an array. [3]

(*b*) What is virtual function ? How is it different from function overriding ? [5]

(*c*) What is Exception ? How is an exception handled in C++ ? [5]

5. (*a*) Explain command line arguments in C++. Write a program for the same. [6]

(*b*) Explain error handling in file I/O with suitable program. [6]

Or

6. (*a*) Explain the concept of file pointers. [6]

(*b*) What is stream ? Write a program to illustrate the stream error concept. [6]

7. (*a*) What is container ? List the container classes in C++. Explain any *one* of them using program. [7]

(*b*) What is STL ? List different types of STL containers. [6]

Or

8. (*a*) Explain forward, bidirectional and random access iterators with suitable example. [6]

(*b*) Write a program to illustrate STL heap sort. [7]