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

Seat No.	

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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]

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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]

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