

Total No. of Questions—8]

[Total No. of Printed Pages—2

Seat No.	
-------------	--

[5252]-565

**S.E. (Computer) (I Semester) EXAMINATION, 2017**  
**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) What is class and object ? Differentiate between class and object. [6]
- (b) Write a program which uses default constructor, parameterized constructor and destructor. [6]

**Or**

2. (a) Discuss the ways in which inheritance promotes software reuse, saves time during program development and helps prevent errors. [5]
- (b) When would you choose to use C rather than C++ ? [4]
- (c) What is the use of this pointer ? [3]
3. (a) Write a program to find the sum of an array **Arr** by passing an array to a function using pointer. [4]
- (b) Differentiate compile time and run time polymorphism. [4]
- (c) What is difference between pointer and references ? Explain using program. [4]

P.T.O.

***Or***

4. (a) Explain public, private and protected keywords using program.[6]  
(b) Explain what is type casting, Implicit type casting and explicit type casting. [6]
5. (a) What is a Stream ? Explain types of streams available in C++. [6]  
(b) What is generic programming ? How is it implemented in C++ ?[7]

***Or***

6. (a) Explain Command line arguments in C++. Write program to explain the same. [6]  
(b) What are various functions which are used to manipulate file pointers ? Explain using examples. [7]
7. (a) What is the purpose of (1) Container (2) Algorithms and (3) Iterators. [6]  
(b) What is the STL ? Why should a C++ programmer be interested in the STL ? What is the design philosophy of the STL ? What are the major components of the STL ? [7]

***Or***

8. (a) Use minimum 8 functions of Deque STL. Write a program to explain the same. [6]  
(b) What is a stack ? How is it implemented using STL ?[7]