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.

4. (*a*) Explain public, private and protected keywords using program.[6]

   (*b*) Explain what is type casting, lmplicit 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]