1108
B.E. (Information Technology)
Second Semester
IT-201: Object Oriented Programming Using C++

Time allowed: 3 Hours   Max. Marks: 50

NOTE: *Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.*

x-x-x

I.   Attempt the following:-

   a) What are the objectives of Object oriented programming?

   b) Define Polymorphism?

   c) What is a default constructor?

   d) Define generic functions?

   e) Define void pointer?   (5x2)

II.   a) When will you make a function inline? Why? How it is defined in C++?

   b) What are constructors. How can constructors be invoked? With an example distinguish between parameterized constructors and copy constructor?   (2x5)

III. What is the use of function overloading? Write a C++ program using function overloading to find the area of the circle and rectangle?   (10)

IV.   a) Write a C++ program to implement a Binary Search Procedure to find whether the given element is present in the array or not using Objects and Classes.

   b) What is reference variable? Write a program in C++ to find the sum of two numbers using reference variable?   (2x5)

UNIT – II

V.   a) What is inheritance? Explain different types of inheritance with suitable example and syntax?

   b) What is a function template and Function instantiation? Explain?   (2x5)

P.T.O.

VI.   What is pointer? Write a C++ program to sort the array of integers in ascending and descending order using pointer function?   (10)

VII. Write short notes on: Mainpulators and Generic classes.   (10)

x-x-x