

2062

B.E. (Computer Science and Engineering)

Second Semester

CSC-201: Object Oriented Programming

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) Write down the syntax to create multiple inheritances.
- b) What is the role of throw () function in exception handling?
- c) How the memory is dynamically created and destroyed?
- d) What is scope resolution operator? Where it is used?
- e) What is the utility of pointer to base class?

(5x2)

UNIT - I

II. a) List those operators which cannot be overloaded in C++. Write a C++ program using operator overloading to add two complex numbers.

b) Write a note on built-in-data types of C++.

(6,4)

III. a) Discuss the storage classes of C++ specifying scope, lifetime, storage, and default value of each.

b) Differentiate structured programming and object oriented programming. (2x5)

IV. a) What is a friend function? List down its important features.

b) Explain the built-in data types of C++?

(2x5)

UNIT - II

V. a) Differentiate among compile time and run time errors. Which constructs are used in C++ to manage the run time errors?

b) What is the generic programming/templates? How it is different from function overloading?

(2x5)

P.T.O.

(2)

VI. What is an abstract class? What is the role of a pure virtual function and how it is declared in a class? Explain protected access specifier in multilevel inheritance. (3+4+3)

VII. Write note on the following:-

- a) Scope resolution operator (::)
- b) Data abstraction
- c) Objects
- d) Logical and syntax errors

(4x2½)

x-x-x