

Exam.Code:0906

Sub. Code: 6678

1019

B.E. (Computer Science and Engineering)

Second Semester

CS-202: 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:-
- What is void pointer?
 - How data hiding is implemented in OOPS?
 - Why Inline functions are called macros?
 - What is generic programming?
 - Name some operators that can't be overloaded.
 - What is Containership?
 - What is the use of 'THIS' pointer?
 - Explain Pure Virtual Functions.
 - Name two new data types introduced in C++.
 - What is meant by ofstream in C++?

(10x1)

UNIT – I

- II. a) Write a class ACCOUNT that represents your bank account and then use it. The class should allow you to deposit money; withdraw money, calculate interest (8%) and send you a message if money is not sufficient in the account. Use constructor to provide initial amount in the account. Use pointers to access the class members.
- b) How Object Oriented Programming is different from Module Programming?
(7,3)
- III. a) Write a program to exchange private variables between two classes using concept of Friend function and pass the values by reference.
- b) Write a program to overload logical operator for string concatenation. (5,5)

P.T.O.

(2)

- IV. a) What are primitive and non primitive data types? Write a program to demonstrate non-primitive to non- primitive data type.
- b) What is Inheritance? List its types. Write a program to find factorial using Inheritance. (5,5)

UNIT – II

- V. a) Explain class template using multiple parameters. Write a program in C++ to demonstrate the same.
- b) List different types of STL containers. (5,5)
- VI. a) Write a program to copy a text file using command line arguments.
- b) Explain seekg(), tellg(). read() with syntax. (6,4)
- VII. a) What is exception Handling? How it is implemented in C++. Write a program to demonstrate the concept of rethrowing an exception.
- b) What are various file opening modes? (6,4)

x-x-x