

JK Lakshmipat University, Jaipur

Institute of Engineering and Technology

End Term Examination

B.Tech.[II]/[III]/[2013]

Course Name: Object Oriented Programming

Course Code: CSE302

Max Marks: 40

Time: 03.00 hr

Instructions:

1. Attempt all sections.

Section A

(10 Marks)

Q.1

i) A constructor that accepts _____ parameters is called the default constructor

- A. One B. two C. no D. three

ii) Which of the following statement is correct?

- A. Constructor has the same name as that of the class.
B. Destructor has the same name as that of the class with a tilde (~) symbol at the beginning.
C. Both A and B.
D. Destructor has the same name as the first member function of the class.

iii) What happens when a class with parameterized constructors and having no default constructor is used in a program and we create an object that needs a zero argument constructor in C++?

- A. Compile time error. B. Preprocessing error.
C. Runtime error D. Runtime exception.

iv) Which of the following statement is correct?

- A. Overloaded functions can have at most one default argument.
B. An overloaded function cannot have default argument.
C. All arguments of an overloaded function can be default.
D. A function if overloaded more than once cannot have default argument.

v) Which of the following function / type of function cannot be overloaded?

- A. Member function. B. Static Function.
C. Virtual Function D. Both B and C.

Q.2.

i) What is copy constructor?

ii) What is the main purpose of overloading operators?

Section B**(20 Marks)****[Attempted any Four Questions]****Q.1**

- i). What are the few advantages of Inline function?
- ii). What do you mean by pure virtual functions?

Q.2.

- i). Name some pure object oriented languages?
- ii). What is the main purpose of overloading operators?

Q.3

- i). What is the difference between class and structure?
- ii). What is difference between function overloading and operator overloading?

Q.4. Write a C++ program which will show the use of friend function.**Q.5.** Write a C++ program to implement single inheritance.**Section C****(10 Marks)**

Q.1 Write a C++ class Binary class which contains a const integer field n. Binary class should also have constructors which initialize n to an integer argument passed as a parameter or to zero if no argument is given. Binary class should also have a destructor. Also overload '+' operator for Binary class.

[OR]

Write a C++ program which will performed constructor overloading. And Also overload '-' operator for same class.

Q.2.

- i). What do you mean by exception handling? What is the use of try, catch and throw statements?
- ii). Write a C++ Program which will handle int, char and float exception from only one try block and multiple catch blocks. **[Hint: assume all possible exception which may appear during program execution]**

[OR]

- i). What do you mean by Polymorphism?
- ii). Explain various kinds of polymorphism.
- iii). What the methods are to implements various kinds of polymorphism?
- iv). Write a C++ program to implement pure virtual function. **[Take necessary assumptions]**