Roll. No…………………………   **1223088**

BCA 3rd Semester Examination

Jan.2014

Subject – Object Oriented Programming

Subject Code – CAL-201

Time Allowed: 03 hours.   Maximum Marks: 100
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Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.
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Note: Question No. 1 is Compulsory and attempts any two questions from each section. All questions carry equal marks.

1. a) What is object oriented programming? Describe the major characteristics of a OOP Language.

b) What do you mean by Dynamic memory allocation? Define malloc and calloc functions with their syntax,.

c) What is the friend function and how it is declare with the class?

d) What is file and file stream? Give the type of file stream. (5*4)

SECTION-A

2. Describe the following:-

   a) Class and Object
   b) member of class
   c) access specifier
   d) Definition of function inside class and outside the class using suitable example.

                                                                    (20)

3. a) what are the constructor and destructor. Explain all types of constructors with the help of example.   (12)

b) What is operator over loading? Write a program to overload binary operator(+) using friend function.   (8)

4a) Define copy constructor .Give the benefits of copy constructor with a programming example.   (10)

b) Explain the following:
I) abstract data types
II) abstract classes
III) objects and classes.   (10)

SECTION-B

5. a) What are the differences between function overriding and function overloading. Explain with example?   (10)

b) What is Base and Drive Classes? Explain it with the help of suitable example. (10)

6. a) Explain the use of multiple inheritance and multi level inheritance with the help of suitable programming example.   (12)

b) What is use of file handling in C++? How data is read from a Sequential access file?   (8)

7. a) Explain all exception handling functions with their syntax. (8)

b) What are templates? Give its syntax and explain with suitable example. (12)