THIRD SEMESTER B.Sc. (CS) DEGREE EXAMINATION, NOVEMBER 2017

OOP'S USING C++

(Theory)

Time : 3 Hours]   [Max. Marks : 80

Answer any five full questions.

(8+8=16)

I.   a)   Write the characteristics of POP and OOP.

     b)   What are the concepts of OOP? Explain. them.

(6+6+4=16)

II. a)   Explain new and delete operators with syntax and example.

     b)   Define manipulators. Explain two manipulators with example.

     c)   What is keyword? List atleast 10 C++ keywords.

(6+4+4=16)

III. a)   What do you mean by pass by reference? Explain with example.

     b)   What are the advantages of inline function?

     c)   Compare functions overloading with functions overloading.

IV. a)   Define class and object. Write a program to demonstrate object as function
          argument and returning objects from function.   (8+8=16)

     b)   What is constructor? Explain dynamic constructor with example.

V.   a)   Write a program to overload comparison operator (= =) for compare two strings.
                                                                        (8+8=16)

     b)   What do you mean by data conversion? Explain basic to class and class to save type
          conversion with example.

VI. a)   What is containership? Explain different types of inheritance.   (8+8=16)

     b)   Explain virtual and pure virtual functions with example.

VII. a)   Define template. Write a program to sort an array of elements using function template.
                                                                        (8+8=16)

     b)   What is exception? Explain exception handling mechanism with example.

VIII. Write short notes on any four: (4×4=16)

     a)   Iostream class
     b)   Dynamic binding
     c)   Destructor
     d)   Overloaded constructor
     e)   Friend function