AR—24—2018

FACULTY OF COMPUTER SCIENCE

B.Sc. (CS) (Second Year) (Third Semester) EXAMINATION

MARCH/APRIL, 2018

COMPUTER SCIENCE

(S3.3)-CC

(Object Oriented Concept Using C++)

(Thursday, 25-4-2018)   **Time : 2.00 p.m. to 5.00 p.m.**

Time—3 Hours   *Maximum Marks—80*

N.B. :— (*i*)   *All* questions are compulsory.

(*ii*)   Figures to the right indicate full marks.

(*iii*)   Draw neat labelled diagram whenever necessary.

(*iv*)   Assume suitable data whenever necessary.

1.   Solve the following (any *five*) :   20

(*a*)   Explain any three benefits of oops.

(*b*)   Explain use of scope resolution operator.

(*c*)   Explain function overloading.

(*d*)   Explain friend function.

(*e*)   Explain 'this' pointer.

(*f*)   Explain single Inheritance.

(*g*)   Explain updating file.

2.   Solve any *two* of the following :   10

(*a*)   Explain basic concepts of object oriented programming in detail.

(*b*)   Write a program in C++ for calculating factorial of given number.

(*c*)   Explain unary operator overloading with example.

P.T.O.

3. Solve any *two* of the following : 10

   (*a*)   What is inheritance ? Explain multiple inheritance with example.

   (*b*)   Explain stream classes in detail.

   (*c*)   Write a program to open file and insert the record of 2 emp having following fields empname, empids, salary.

4. Solve any *two* of the following : 10

   (*a*)   Explain structure and union with example.

   (*b*)   Explain constructor with example.

   (*c*)   Write a program to demonstrate switch statement.

5. Solve any *two* of the following : 10

   (*a*)   Explain inline function with example.

   (*b*)   Write a program in C++ to demonstrate manipulators.

   (*c*)   Explain the rules for virtual function.

6. Solve any *two* of the following : 10

   (*a*)   Explain the C++ tokens.

   (*b*)   Write a program in C++ for basic to class type conversion.

   (*c*)   Explain concept of pointer.

7. Solve any *two* of the following : 10

   (*a*)   Explain static data members with suitable C++ program.

   (*b*)   Enlist the rules for operator overloading.

   (*c*)   Write a program in C++ to demonstrate unformated I/O operation.