

**FACULTY OF SCIENCE**  
**B.Sc. II-Semester (CBCS) Examination, May / June 2017**  
**Subject : Computer Science**

**Paper – II : Programming in C++**

**Time : 3 Hours**

**Max. Marks: 80**

**PART – A (5 x 4 = 20 Marks)**  
**(Short Answer Type)**

**Note : Answer any FIVE of the following questions.**

- 1 What is a function overloading? Explain.
- 2 List and explain the operators those are used only in C++.
- 3 Explain about private member function.
- 4 Explain the types of aggregation with examples.
- 5 Explain unformatted I/O functions.
- 6 What is Inheritance? Explain the types of inheritance.
- 7 What is an exception? Explain some built-in exceptions.
- 8 Define template. What is the need of a template.

**PART – B (4 x 15 = 60 Marks)**  
**(Essay Answer Type)**

**Note: Attempt ALL the questions.**

- 9 (a) What is searching? Explain the concept of binary search with an example program.  
**OR**  
(b) What is an array? Write a C++ program to multiplication of two matrices.
- 10 (a) What is over loading? Explain operator overloading with an example program.  
**OR**  
(b) Discuss about object conversion with an example program.
- 11 (a) What is a polymorphism ? Explain different types of polymorphism with example program.  
**OR**  
(b) Explain the concept of virtual function with program.
- 12 (a) Write about object oriented exception handling with classes.  
**OR**  
(b) Explain function template with an example program.

\*\*\*\*\*