

Code No. 3038

B.Sc. II-Semester **FACULTY OF SCIENCE**
(CBCS) Examination, May / June 2019

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 Explain inline function with a program.
- 2 Write down the applications of OOP.
- 3 What is aggregation? List out the types of aggregation.
- 4 What is the need for private members? Explain.
- 5 State the rules associated with virtual functions.
- 6 Explain the different types of stream classes in C++.
- 7 What is a template? Write the syntax of a template.
- 8 What is an Exception? List out built-in-exceptions.

PART – B (4 x 15 = 60 Marks)

(Essay Answer Type)

Note: Answer ALL from the questions.

- 9 (a) Explain the concept of binary search with proper example and program.
OR
(b) What is function prototype? Discuss the process of passing data by value with proper program.
- 10 (a) What is a constructor? Explain about copy constructor with example program.
OR
(b) Explain instance and static members of a class with proper examples.
- 11 (a) What is polymorphism? Explain different types of polymorphism with examples.
OR
(b) What are streams? Explain different formatted and unformatted I/O operations.
- 12 (a) Explain about catching multiple exceptions with suitable program.
OR
(b) What is function template? Write a C++ program to swap two numbers using function template.
