



# CBCS SCHEME

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15EC562

## Fifth Semester B.E. Degree Examination, Jan./Feb.2021 Object Oriented Programming Using C++

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Describe, with example the scope resolution operator in C++. (04 Marks)
- b. Explain preprocessor directive statements with an example. (04 Marks)
- c. Write C++ program that will ask for a temperature in Fahrenheit and display it in celsius using a class and member functions. (08 Marks)

OR

- 2 a. Summarize the operators in C++. (04 Marks)
- b. Describe with examples uses of structure data type. (04 Marks)
- c. Write C++ program that will find a factorial of a number. (08 Marks)

### Module-2

- 3 a. Describe function overloading. (05 Marks)
- b. Show the inline function that obtains the largest of two numbers. (05 Marks)
- c. Explain the Recursion with example program. (06 Marks)

OR

- 4 a. What are the special characteristics of friend function? (06 Marks)
- b. Write a C++ program to read two numbers from keyboard and display the larger value on the screen. (10 Marks)

### Module-3

- 5 a. Write the C++ program to construct strings in objects using constructors. (10 Marks)
- b. What are the special characteristics of constructors? (06 Marks)

OR

- 6 a. Write the C++ program for overloading unary minus. (08 Marks)
- b. Explain the usage of destructors with example program. (08 Marks)

### Module-4

- 7 a. Explain the terms in inheritance, (i) private (ii) public (iii) protected. (06 Marks)
- b. Explain the multilevel inheritance with example program. (10 Marks)

OR

- 8 a. Write C++ program to illustrate the use of 'this' pointer. (08 Marks)
- b. What is polymorphism? (02 Marks)
- c. How do we then achieve polymorphism? (06 Marks)

### Module-5

- 9 a. Write the stream classes for console operations. (08 Marks)
- b. Describe about output manipulators. (08 Marks)

OR

- 10 a. Write the C++ program to create files with constructor function. (10 Marks)
- b. Explain the EOF detection. (06 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.