

322455(22)

**B. E. (Fourth Semester) Examination,
April-May 2019**

(New Scheme)

(CSE Branch)

**OBJECT ORIENTED CONCEPTS & PROGRAMMING
USING C++**

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) of each question is compulsory & are carry equal 2 marks. Attempt any two parts from (b), (c) and (d) of each unit and carries equal 7 marks. Assume suitable data if necessary.

Unit - I

1. (a) Define objects with example.

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- (b) Explain the basic concept of object oriented programming.
- (c) Write difference between procedure programming VS object oriented programming paradigm in tabular form.
- (d) What is an Inheritance? Write an explain with suitable example.

Unit - II

2. (a) Write the name of two manipulators.
- (b) Write a program in C++ which uses at least 4 manipulators.
- (c) Write a program which add, subtract the complex numbers.
- (d) What is a friend function? Write a program to swap numbers of two classes. The data member of classes are private.

Unit - III

3. (a) What is a new and delete operator.

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- (b) Write a program which demonstrate pointer to object.
The class members call through pointer object.
- (c) What is a constructor? Write a program which uses constructor overloading.
- (d) Write a program in C++ which count the no. of object created by the program.

Unit - IV

4. (a) What is an operator overloading?
- (b) Write a program to overload + operator to add two times (hour, min). <http://www.csvtuonline.com>
- (c) Write the syntax of all Inheritances available in C++ with their definition.
- (d) What is multiple inheritance? Write a program to demonstrate multiple inheritance.

Unit - V

5. (a) What is abstract class?
- (b) What is a virtual function. Write a program which uses virtual function.

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- (c) What is a file? Write a program which count the total number of character in a file "abc.txt".
- (d) What is an exception handling? What is the use of exception handling. Explain try, catch, throw with example.

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