

**Second Semester Bachelor of Vocation Software Development (Three Years Degree Course)
(Semester Pattern) Examination**

**SKILL DEVELOPMENT COMPONENT
(Object Oriented Programming Using 'C++')**

Paper—V

Time : Three Hours]

[Maximum Marks : 70

Note :— ALL questions are compulsory and carry equal marks.

EITHER

1. (A) Explain class and object with proper syntax and example. 7
- (B) Explain access specifiers used in class. 7

OR

- (C) Write an algorithm and draw a flowchart to calculate factorial of any inputted number. 7
- (D) Explain features of object oriented programming. 7

EITHER

2. (A) What is operator overloading ? Give rules of operator overloading. 7
- (B) What is constructor ? Explain parameterized construction. 7

OR

- (C) What is destructor ? Give the order of execution of constructor and destructor. 7
- (D) Write a program to add two numbers by using binary operator overloading. 7

EITHER

3. (A) Explain use of dynamic object with suitable example. 7
- (B) Explain pointer to objects used in dynamic objects. 7

OR

- (C) What is inheritance ? Explain multiple inheritance. 7
- (D) Explain use of this pointer with suitable example. 7

EITHER

4. (A) What is virtual function ? Explain rules for virtual function. 7
(B) What is exception handling ? List the different exceptions used in C++. 7

OR

- (C) Explain need of abstract class in object oriented programming. 7
(D) Write a program to handle arithmetic exception in C++. 7
5. **ALL** questions are compulsory :
- (A) Explain data member and member function. 3½
(B) Explain unary operator. 3½
(C) Explain protected keyword used in multilevel inheritance. 3½
(D) Explain handling of uncaught exceptions. 3½