

Diploma (One Year) (B.Voc.) Semester—II (Software Development) Examination

Skill Development Component

OBJECT ORIENTED PROGRAMMING USING C++

Compulsory Paper—5

Time : Three Hours]

[Maximum Marks : 70

N.B. :— All questions are compulsory and carry equal marks.

EITHER

1. (A) What is object oriented programming ? Write features of object oriented programming. 7

(B) What is class and object ? Write a program using class to find factorial of a number. 7

OR

(C) Explain Access specifiers available in C++. 7

(D) Explain the following with proper syntax :

(i) Data member

(ii) Member function. 7

EITHER

2. (A) What is operator overloading ? What are the rules used for operator overloading ? 7

(B) Differentiate between constructor and destructor. 7

OR

(C) What is copy constructor ? Write a program to demonstrate copy constructor. 7

(D) Explain the following :

(i) Parameterized constructor

(ii) Default argument in constructor. 7

EITHER

3. (A) What is inheritance ? What are the different types of inheritance ? Explain any one of them. 7

(B) Write a short note on new and delete operator. 7

OR

(C) What is abstract classes ? What is the need of abstract class ? How abstract class is obtained in C++ ? 7

(D) Explain the following :

(i) This pointer

(ii) Dynamic object. 7

EITHER

4. (A) What is exception handling ? Explain exception handling block in C++. 7

(B) What is virtual function ? Write rules for virtual functions. 7

OR

(C) Explain the following :

(i) Pure virtual function

(ii) Memory allocation failure exception. 7

(D) Explain fault tolerant design techniques used in C++. 7

5. (A) What is static data member ? 3½

(B) What is unary operator overloading ? 3½

(C) Explain use of constructor and destructor in inheritance. 3½

(D) What are the rules used for handling exception ? 3½