Total No. of Questions : 09

B.Voc. (E&IT)   **(Sem.–2)**

OBJECT ORIENTED PROGRAMMING USING C++

Subject Code : BVET-202-20

M.Code : 79547

Date of Examination : 06-07-22

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1) **Write briefly :**

a) What do you mean by dynamic initialization of objects?

b) What is the purpose to define multiple constructors in a class?

c) What are the limitations of multiple inheritance?

d) What is the role of objects in C++?

e) List the advantages of inheritance concept.

f) What is the use of *this* keyword in C++?

g) Outline the major components of a C++ program.

h) Define operator overloading.

i) What is the purpose of using a destructor in C++?

j) List any four file opening modes in C++.

SECTION-B

2) Write a program to copy contents of one file into another file in C++.

3) Differentiate between object-oriented programming and procedure-oriented programming paradigms.

4) How member functions of a class are accessed using objects? Explain with an example.

5) Explain the concept of virtual function with an example.

6) Write a program to calculate the area of a rectangle and a triangle using function overloading.

SECTION-C

7) Discuss the role of access specifiers in inheritance and show their visibility when they are inherited as public, private and protected with an example.

8) Discuss the various types of constructors in C++ with an example.

9) Write short notes on :

   a. Data Encapsulation

   b. Abstract Class

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.