

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (Cyber Security) (Sem.-2)

OBJECT ORIENTED PROGRAMMING USING C++

Subject Code : UGCA-1909

M.Code : 91717

Date of Examination : 17-12-22

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 **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION-A

1. Write briefly :

- a) What is a constructors?
- b) What is a virtual function?
- c) What is a friend functions?
- d) How is object different from a class?
- e) What is meant by initialization of a variable?
- f) What is advantage of scope resolution operator
- g) What is a static variable?
- h) What is function overloading?
- i) What is direct memory access?
- j) What is a private access specifier?

SECTION-B

2. Distinguish between static members & variables. How are they useful?
3. What are the various access mechanisms available for inheritance?
4. How does a compiler proceed to execute an overloaded function?
5. Write a program in C++ to overload the +, operator to find the addition, subtraction of strings.
6. How are Constructors invoked in derived classes? What is a parameterised constructor?
7. Why is it necessary for constructors to know the order to declaration in base class while destructors need not know the same? What actually happens when a destructor is invoked?

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.