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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-2)
OBJECT ORIENTED PROGRAMMING USING C++

Subject Code : UGCA-1909

M.Code : 77417

Date of Examination: 28-05-2025

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. Explain briefly :

- a) Distinguish between Dynamic binding and message passing.
- b) Explain use of friend function with the help of suitable example.
- c) What is the need of inheritance?
- d) Write difference between object oriented programming and procedure oriented programming.
- e) Define polymorphism.
- f) Explain how to write a file?
- g) State the use of scope resolution operator and its use in C++.
- h) What is virtual keyword used for?
- i) What are rules for overloading operators?
- j) Explain early binding.

SECTION - B

2.
 - a) Discuss member functions.
 - b) When is an object created and what is its lifetime?
3. What is inheritance? What are different types of inheritance? Explain multiple inheritances with example.
4.
 - a) What do you mean by type conversion? Give an example of basic to object conversion.
 - b) Explain abstract classes.
5. Explain Virtual functions with example. What is the difference between static & dynamic binding?
6.
 - a) What is difference in multiple and multilevel inheritance?
 - b) What function can be used to open a file in C++?
7. What do you mean by operator overloading and method overloading? Write a distance class which contains data members of distance in meters, centimeters and millimeters. The class must have overloaded operators for addition + and subtraction- respectively.

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