

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

MCADD-501

M.C.A. (Integrated), V Semester

Examination, May 2024

Object Oriented Programming in C++

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Discuss the important features of OOPs concepts. Explain the organization of data and functions in OOPs.
b) What is a Class? How does it accomplish the data binding?
2. a) What is Constructor? Illustrate memory allocation to an object using constructor.
b) Illustrate the need of operator overloading in OOPs. Write a program to overload the unary ‘-‘ operator to overload using C++.
3. a) Explain UML concepts.
b) Write brief note on UML diagrams and object diagrams.
4. a) Describe briefly the features of I/O system supported by C++.
b) What is the basic difference between manipulators and ios member functions in implementation? Give examples.

[2]

5.
 - a) Write the syntax and example of seekg(), seekp().
 - b) What is File? What are steps involved in manipulating a file in C++ program?

6.
 - a) Write a program to display the given decimal number in hexadecimal number using manipulators.
 - b) Explain the different types of file stream classes.

7.
 - a) Write a C++ program to illustrate the virtual function in inheritance.
 - b) Discuss the error handling during file operations.

8. Write short notes on the following:
 - i) In-line function
 - ii) "This' pointer.
 - iii) Friend function
