Total No. of Questions : 8]   *[Total No. of Printed Pages : 2*

Roll No ....

MCADD-501

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

Examination, June 2020

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) Explain UML concepts.

    b) Write brief note on UML diagrams and object diagrams.

2. a) Describe different methods of realizing polymorphism in C++.

    b) Justify the need for virtual function in C++.

3. a) Draw object oriented notations for class, object, inheritance.

    b) Discuss GML diagrams.

4. a) Differentiate between compile time polymorphism and run time polymorphism.

    b) What is a virtual base class? When do we make it?

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?

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6. Discuss early and late binding.

7. Discuss the pros and cons of class diagram.

8. Write short notes on any two
   i)   Abstract base class
   ii) Tools for creating UML diagram
   iii) Templates in C++

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