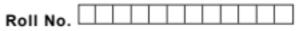


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Total No. of Questions : 08

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MCA (2015 to 2018) (Sem.-1) OBJECT ORIENTED PROGRAMMING IN C++ Subject Code : MCA-102 M.Code : 72708

Time : 2 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE question(s), each question carries 6 marks.
- What is classes and what are its various types of members? Give relevant examples to explain.
- Write a class to represent a vector (a series of float values). Include member functions to perform the following tasks :
 - a) To create the vector
 - b) To modify the value of a given element
 - c) To multiply by a scalar value
 - d) To display the vector in the form (10, 20, 30, ...) Write a program to test your class.
- What is a constructor and destructor? What is the use of default & copy constructors? Is a constructor mandatory for a Class? Explain by giving examples in each case.
- 4. What are the various bit wise operators? Explain with example.
- 5. What do you understand by inheritance? Give its various types and access mechanisms.
- Explain how base class member functions can be invoked in a derived class if the derived class also has a member function with the same name.
- Write a program in C++ to overload the +, -, ×, % operator to find the addition, subtraction, multiplication and division of Complex numbers.
- Write a program to copy the content of a data file to another file. Make use of the exception handling conditions also.

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