

object oriented programming

15/05/2012

MCA/Sem I/choice based

Q.P. Code :02555

15

[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:
1. Question.No.1 is Compulsory.
  2. Attempt any three from remaining five questions.

- Q.1 a) What is a Class? How will you create a class in C++? What are different elements that can be added to a Class? Explain with a suitable program. 10
- b) What is inline function? What are restrictions on use of inline functions? Write a program to implement the concept of inline function. 10
- Q.2 a) What is Operator Overloading? Explain how you will overload a binary operator with a suitable programming example. 10
- b) What is friend function? What is need of friend function? Write a program to illustrate the use of friend function. 10
- Q.3 a) What is inheritance? What type of ambiguity occurs in multiple inheritances and how is it resolved? 10
- b) Explain the differences between:  
1) Static and Constant  
2) C and C++ 10
- Q.4 a) What is Template? Explain the concept of Class Template. Write a program to implement the use of class template. 10
- b) What is polymorphism? Explain with example how polymorphism can be achieved at run-time. 10
- Q.5 a) Declare a student class-with roll no, name and address. Write a program to store and access the object of student class into and from binary file. 10
- b) What is Exception Handling? Write a program to create and handle user defined exception. 10
- Q.6 Write short notes on (any four) 20
- a) New and delete operators
  - b) This pointer
  - c) Namespaces in C++
  - d) Manipulators
  - e) Loops in C++