M.C.A DEGREE EXAMINATIONS: JUNE 2011

Second Semester

MASTER OF COMPUTER APPLICATIONS

MCA506: Object Oriented Programming

Time: Three hours   **Maximum Marks: 100**

Answer ALL Questions

PART A (10x2 = 20 Marks)

1. What are objects?

2. What is data abstraction?

3. Give any four applications of OOPS.

4. What are reference variable?

5. What is an inline function?

6. What is static member function?

7. Define constructor.

8. What is function overload? Give an example.

9. What is meant by inheritance?

10. What is a template?

PART B (5 x 16 = 80 Marks)

11. a) What are the features of OPP's and how are they implemented in C++?

(OR)

   b) Explain about various programming paradigms in detail.

12. a) What is a friend function? What are the merits and demerits of using friend functions?

(OR)

   b) (i) What does *this* pointer points to? What are the applications of *this* pointer?   (8)

      (ii) What is dynamic allocation? How do you achieve it in C++?   (8)

13. a) Explain about Operator Overloading?

(OR)

b) Explain about methods overriding and method overloading?

14. a) What is a virtual function? What is a pure-virtual function? Explain with example.

(OR)

b) What is an exception handling? Illustrate through a neat C++ program for multiple exceptions.

15. a) What is the stream class hierarchy? What are the different types of I/O used in streams?

(OR)

b) What is STL? What are its components? Explain.

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