

(Following Paper ID and Roll No. to be filled in your Answer Books)

**PAPER ID :****Roll No.**

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**M.C.A.****Theory Examination (Semester-II) 2015-16****OBJECT ORIENTED SYSTEMS AND PROGRAMMING WITH C++****Time : 3 Hours****Max. Marks : 100****SECTION – A****1. Attempt all parts of this question.****(10X2 = 20)**

- Describe Aggregation.
- Discuss Generalization.
- What is a Constraint?
- What is JSD?
- Discuss relationships of UML.
- Discuss Diagram of UML.
- What is throw ( ) and catch?
- What do you mean by Garbage Collection?
- Discuss Inline functions.
- What is an Exception?

**SECTION – B****2. Attempt any five parts of this question.****(5X10 = 50)**

- Discuss Inheritance. Discuss its types.
- What is a DFD? Give example.
- Discuss UML terminology in detail.
- Discuss Operator Overloading with example.
- Discuss Polymorphism. Differentiate between Compile Time and Run time Polymorphism. Give example.
- Discuss OMT Methodology. Compare OMT with SA | SD
- Write short note on testing of Object Oriented Systems
- What is file stream? Give Example

**SECTION – C****Attempt any two questions.****(15X2=30)****3. Attempt the following**

- What are Candidate keys ?
- What do you mean by Abstract class ? Give example.
- Discuss Object and Classes. Give examples.

**4. Attempt the following**

- Distinguish between Template class and Template function.
- Discuss pointers to objects with example.
- Discuss State based Testing.

**5. Attempt the following**

- Discuss with example friend function.
- Discuss Constructors and Destructors. Give example.
- Discuss standard C++ String Class.

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