



**SU-8171**

Seat No. \_\_\_\_\_

**M.C.A. (Sem. IV) Examination**

**May / June – 2006**

**P - 402 : Software Engg. : Paper - I**  
*(New Course)*

Time : 3 Hours]

[Total Marks : 75

**Q.1 Write short note (Any three) [15]**

- a) Advantages of OO architecture.
- b) OO project metrics and estimation.
- c) Domain Analysis process
- d) Object behavior model.

**Q.2 Attempt any four [20]**

- a) What steps should we take to review the class model?
- b) What testing options are available at the class level in OO testing?
- c) What criteria can be used to compare conventional and OO design methods?
- d) What are the generic steps to perform by a software engineer to perform object-oriented design?
- e) Discuss the strategy for the design of the objects that manage concurrent tasks.
- f) Explain a model of collaboration between subsystems in object oriented design.

**Q.3 Write answers for the following in detail (Any two) [20]**

- a) What are the major tasks conducted as part of cleanroom software engineering?
- b) How is refinement accomplished as a part of box structure specification in cleanroom software engineering?
- c) What characteristics can be measured when access a class-oriented metrics?

**Q.4 Write answers for the following (Any four) [20]**

- a) What options are available for classifying reusable components in CBSE?
- b) What factors are considered during component qualifications and Composition in CBSE?
- c) What is a “Structure Point” and what are its characteristics?
- d) How can we identify and categorize reusable components in CBSE?
- e) What are the CBSE framework activities?

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**[ 200 ]**