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**Fifth Semester M.C.A Degree Examination, January/February 2005**

**Master of Computer Applications  
Object Oriented Analysis & Design**

Time: 3 hrs.]

[Max.Marks : 100

**Note:** 1. Answer any *FIVE* full questions.  
2. All questions carry equal marks.

1. (a) Compare and contrast the procedure oriented software development with object oriented software development. What are the advantages of object orientation? Explain. (8 Marks)
- (b) Explain the following terms with example.
  - i) Consumer-producer association
  - ii) Static and dynamic binding
  - iii) Object persistence (6 Marks)
- (c) What are the quality measures to be considered while building high quality software? (6 Marks)
2. (a) What is software development process? Describe the waterfall approach of software development process. (8 Marks)
- (b) Why reusability is important? How does object oriented software development promote reusability? Explain. (6 Marks)
- (c) What is component based development? Why is it important in object oriented system development? (6 Marks)
3. (a) Describe Booch methodology for object oriented system development. (10 Marks)
- (b) Discuss the unified approach to software development. (10 Marks)
4. (a) What is UML? Explain the behaviour diagrams in UML. (10 Marks)
- (b) Describe the UML class diagram. (5 Marks)
- (c) What are the guidelines for developing effective documentation? Explain. (5 Marks)
5. (a) List the different approaches for identifying classes. Describe the noun phrase approach for identifying classes in problem domain. (10 Marks)
- (b) Describe the difference between patterns and frameworks. (5 Marks)
- (c) What is the purpose and need of analysis? Why is analysis a difficult task? Explain. (5 Marks)

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6. (a) What is association? What are the guidelines for identifying association? (5 Marks)
- (b) What is an a-part-of structure? What are its properties? What guidelines would you use to identify a-part-of structure? (5 Marks)
- (c) What are different activities of object oriented design process? Explain. (10 Marks)
7. (a) Explain the object oriented design axioms and corollaries. (10 Marks)
- (b) What is an OODBMS? Compare it with DBMS. (5 Marks)
- (c) Describe the process of creating the access layer classes. (5 Marks)
8. (a) Describe the UI design rules. (10 Marks)
- (b) Explain the macro and micro processes of view layer design. (5 Marks)
- (c) Give the guidelines for designing Dialog box, error messages and command buttons. (5 Marks)

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