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K 3541

M.C.A. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Fourth Semester

MC 1753 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Compare message versus method.
2. List the relationships among classes.
3. Define modeling.
4. What is a use case?
5. Why is analysis a difficult task?
6. List the attribute types.
7. What is an axiom? List the design axioms for object oriented design.
8. What are design patterns?
9. What is scenario based testing?
10. List the Myer's debugging principles.

PART B — (5 × 16 = 80 marks)

11. (a) (i) List and explain the features of object orientation. (6)
- (ii) Compare structured approach of system design with object oriented approach with example. (10)

Or

- (b) Explain the following :
- (i) Object and identity
- (ii) Static and dynamic binding
- (iii) Object persistence
- (iv) Meta classes. (4 × 4 = 16)

12. (a) (i) Explain Rumbaugh's Object modeling technique. (10)
- (ii) Draw the activity diagram for a simple ATM transaction. (6)

Or

- (b) (i) Explain booch methodology. (10)
- (ii) Draw the collaboration diagram for a simple telephone system. (6)

13. (a) Explain use case driven object oriented analysis. (16)

Or

- (b) Explain noun phrase approach and common class pattern approach for identifying classes. (16)

14. (a) Discuss in detail about object oriented design process used in unified approach. (16)

Or

- (b) (i) Explain the design patterns with an example. (8)
- (ii) State the guidelines for designing forms and data entry windows. (8)

15. (a) (i) Explain the impact of object orientation on testing. (6)
- (ii) Write short notes on different testing strategies. (10)

Or

- (b) Discuss in detail about usability and user satisfaction testing. (8 + 8)

16)

(10)

(6)

10)

(6)

16)

For

(6)

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(6)

8)

8)

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