

J 1126

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Seventh Semester

Computer Science and Engineering

CS 433.— OBJECT ORIENTED SYSTEM ANALYSIS AND DESIGN

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is object oriented system development methodology?
2. Distinguish between method and message in object.
3. What is an object model? What are the other OMT models?
4. Why is UML called as modelling language?
5. What are the three relationship that can be shown in UML diagram? Define them.
6. List the guidelines for identifying tentative classes using noun phrase approach.
7. What are few characteristics of bad design?
8. What is OODBMS?
9. What is meant by quality assurance?
10. What is the impact object orientation in testing?

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PART B — (5 × 16 = 80 marks)

11. (i) Briefly describe the Booch system development process.
- (ii) Define pattern and frame works. How do they differ from one another?
12. (a) (i) What is prototyping? How is it useful? State the advantages and disadvantages of prototyping.
- (ii) Describe the different phases of OOSD life cycle.

Or

- (b) (i) What is system development methodology? Discuss the advantages and disadvantages of object oriented system development methods.
- (ii) What is object relationship? Explain different types of relationships with suitable examples.
13. (a) Explain with an example how the classes can be identified using the phrase approach.

Or

- (b) (i) What is CRC? How is it used to identify classes? Explain with an example.
- (ii) How is super-subclass identified? Explain with an example.
14. (a) (i) What is meant by axioms? Explain two object oriented design axioms.
- (ii) What are public and private protocols? What is the significance of separating these two protocols?

Or

- (b) (i) Describe the necessary characteristics that a system must satisfy to be considered an object oriented system.
- (ii) Write notes on class mapping view layer.

- (1) (a) (i) State the guidelines for developing quality assurance test cases. (8)
- ther? ((ii) What are statement and branch testing coverage in object oriented testing? Explain. (8)

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- (6) (b) (i) What is meant by usability tests? How are they carried out? (10)
- (10) (ii) What is user satisfaction test? State the objectives of it. (6)

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