

R 3264

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Fifth Semester

Information Technology

CS 1402 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — ($10 \times 2 = 20$ marks)

1. What is an instance? Give an example?
2. List the relationships among classes.
3. What are the phases of OMT?
4. Differentiate between Patterns and Frameworks.
5. Who are actors? How do they differ from users?
6. When to use CRC cards?
7. Define object storage.
8. List the object oriented design axioms and corollaries.
9. What are the main tools of Quality Assurance?
10. What is a test case?

PART B — ($5 \times 16 = 80$ marks)

11. (a) (i) Discuss the advantages of Object Oriented Approach. (6)
(ii) Briefly explain the elements of Object model. (10)

Or

- (b) (i) Briefly explain about Object oriented Systems development life cycle. (10)
(ii) Describe State, behaviour, and identity with respect to an object with relevant example. (6)

12. (a) (i) Compare and contrast the Object Oriented methodology of Booch, Rumbaugh and Jacobson. (6)
(ii) Explain about a Unified approach to software development. (10)

Or

- (b) Draw the Class diagram and Usecase diagram, for Railway Reservation system. (8 +8)
13. (a) Describe the basic activities in Object oriented analysis and explain how Usecase modeling is useful in analysis. (16)

Or

- (b) Discuss the importance of proper classification. Briefly explain the different approaches used for identifying classes and objects. (16)
14. (a) Write short notes on the following :
- (i) Object Interoperability (8)
(ii) Access Layer. (8)

Or

- (b) (i) Briefly explain, how design axioms help to avoid design pitfalls. (8)
(ii) Explain the principles and metrics of good object oriented design. (8)
15. (a) Explain about software quality and usability. (16)

Or

- (b) (i) Describe the different types of testing strategies. (8)
(ii) How do you develop a custom form for a user satisfaction test? Explain with an example. (8)
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