G 6926

(Pages : 2) Reg. No 2

Name

B.TECH. DEGREE EXAMINATION, APRIL 2011

Seventh Semester

Branch—Computer Science and Engineering/Information Technology

OBJECT ORIENTED MODELLING AND DESIGN (RT)

(Improvement/Supplementary)

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 *marks.*

1. Justify why inheritance should be used with caution in OOA.
2. Explain briefly the various kinds of relationship among objects.
3. Discuss the relationship of object and dynamic model.
4. Explain the terms event, states and concurrency.
5. What is meant by handling boundary condition ?
6. Write notes on managing of data stores.
7. Explain about design optimization.
8. Explain about adjustment of inheritance.
9. What are the major advantages of UML ?
10. Write short note on sequence diagram and activity diagram.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*
Each question carries 12 *marks.*

11. (a) Discuss the concepts in advanced object modelling with example.

Or

(b) Write notes on :

(i) Metadata and constraints. (6 marks)

(ii) Multiple inheritance. (6 marks)

12. (a) Write short notes on :

(i) Data flow diagram. (6 marks)

(ii) Nested state diagram. (6 marks)

Or

(b) Discuss the process of analysis with respect to object model, dynamic and functional model.

Turn over

13. (a) Write a short note on the following :—

(i) Breaking system into subsystem. (6 marks)

(ii) Allocating subsystems to processors and tasks. (6 marks)

Or

(b) Describe dynamic modelling with respect to any application.

14. (a) (i) Discuss in detail about design of association. (6 marks)

(ii) Compare different object design methodologies. (6 marks)

Or

(b) Discuss in detail about designing algorithms.

15. (a) Discuss in detail about Jacobson methodology with example.

Or

(b) (i) List out the difference between implementation model and test model. (6 marks)

(ii) With an example, show how sequencing in time is represented in UML. (6 marks)

[5 × 12 = 60 marks]