

G 1072

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Reg. No.....

Name.....



B.TECH. DEGREE EXAMINATION, MAY 2015

Seventh Semester

Branch : Computer Science and Engineering

CS 010 704—OBJECT ORIENTED MODELLING AND DESIGN (CS)

(New Scheme—2010 Admission onwards)

[Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Describe link and association.
2. Define a condition and give one example.
3. Mention the two aspects of reuse.
4. Mention the purpose of object design.
5. What are active objects and give it's notation ?

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Explain aggregation concept with an example diagram.
7. Explain the relation of functional to object and dynamic models.
8. How the system designer estimates the hardware resource requirements ?
9. List the steps to be performed by the designer during object design.
10. Describe swim lanes in activity diagrams with an example.

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. Explain generalization and inheritance with a suitable example.

Or

12. Describe grouping constructs in object oriented development.

Turn over

13. Illustrate and briefly explain the nested state diagram for a phone line.

Or

14. Describe the following advanced dynamic modelling concepts :—

- (i) Automatic transition ;
- (ii) Synchronization of concurrent activities.

15. Explain the various criteria to discard unnecessary and incorrect associations.

Or

16. Describe the process of choosing software control implementations.

17. Explain the following concepts for achieving adjustment of inheritance:

- (i) Rearrange classes and operations.
- (ii) Abstracting out common behaviour.

Or

18. Describe the issues involved in physical packaging.

19. Explain branching and synchronization in activity diagrams with suitable illustrations.

Or

20. Describe deployment diagram symbols and notations with suitable illustrations.

(5 × 12 = 60 marks)

