Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 75558

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Seventh Semester

Computer Technology

XCS 473/10677 SW 604 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to 5 Year M.Sc. Software Engineering/M.Sc. Information Technology)

(Regulation 2003/2010)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What is meant by an object? How an object is related to a class?

2.   What is the difference between data encapsulation and data hiding?

3.   Write about the major differences between design patterns and framework.

4.   What is objectory?

5.   What are the uses of use case model?

6.   How object oriented analysis is different from object oriented design?

7.   Define visibility of an object.

8.   What are the various types of associations?

9.   Write the attribute presentation suggested by UML. Give an example.

10. Why are uses and extends useful in use-case modeling?

PART B — (5 × 16 = 80 marks)

11. (a) Explain about object state, behaviors and methods in detail. (16)

Or

(b) (i) Explain polymorphism and its advantages with an example. (8)

(ii) What is meant by aggregation? Explain with a suitable example. (8)

12. (a) Compare Booch and Rambaugh methodologies. Is it possible to merge both methods? Discuss briefly. (16)

Or

(b) Discuss the following :

(i) Jacobson methodology (8)

(ii) Patterns. (8)

13. (a) Describe Object Oriented analysis and compare with conventional one.(16)

Or

(b) (i) What is meant by classification? Describe noun phrase approach for identifying classes with an example. (8)

(ii) What is meant by CRC? Explain in detail with examples. (8)

14. (a) What are Object Oriented Design axioms and their significances? Explain in detail. (16)

Or

(b) Explain the different methods for designing methods and protocols in detail. (16)

15. (a) Define UML. Explain the purpose, function and UML notation of the class diagram. (16)

Or

(b) Explain the analysis, design, evolution and maintenance of inventory tracking. (16)

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