Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : Q 2757

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Seventh Semester

Computer Science and Engineering

CS 1402 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to B.E.(Part–Time) Sixth Semester Regulation 2005)

(Regulation 2004)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   Give the characteristics of object oriented system.

2.   What is an object? Give an example.

3.   Give a note on patterns and its necessity.

4.   Mention the models in Object Modelling Techniques in Rambaugh methodology and its role for describing the system.

5.   List out the steps for finding use cases?

6.   Give the hint to identify the attributes of a class?

7.   Define axion along with its types.

8.   For the schema employee (emp-id, emp-name, street, city) give the class representation along with the attribute types.

9.   Mention the purpose of view layer interface.

10.   What are client / server computing? Give two applications which work on this basis?

11. (a) Explain and develop the payroll system using the steps of Object Oriented approach. (16)

Or

(b) Explain the following

(i) Object Modelling Technique. (8)

(ii) Compare Aggregation and Composition with a suitable example. (8)

12. (a) Explain the relationships that are possible among the classes in the UML representation with your own example. (16)

Or

(b) What are the various diagrams that are used in analysis and design steps of Booch methodology? Explain with your own example. (16)

13. (a) Explain the method of identifying the classes using the common class approach with an example. (16)

Or

(b) Consider the Hospital Management System application with the following requirements

- System should handle the in-patient, out-patient information through receptionist.

- Doctors are allowed to view the patient history and give their prescription.

- There should be a information system to provide the required information.

Give the use case, class and object diagrams. (4 + 8 + 4)

14. (a) With a suitable example explain how to design a class. Give all possible representation in a class (name, attribute, visibility, methods, responsibilities) (16)

Or

(b) Design the access layer for the Students information management which includes personal, fees and marks details. (16)

15. (a) (i) Explain the various Testing strategies. (12)

      (ii) Give the use cases that can be used to generate the test cases for the Bank ATM application. (4)

Or

(b) (i) How will you measure the user satisfaction? Describe. (6)

      (ii) Perform the satisfaction test for any client / server application. (10)

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