

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1069

Roll No.

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B.Tech.

(SEM IV) EVEN SEMESTER THEORY EXAMINATION,
2009-2010

OBJECT ORIENTED SYSTEM

Time : 3 Hours

Total Marks : 100

Note : (i) Attempt *ALL* the questions.

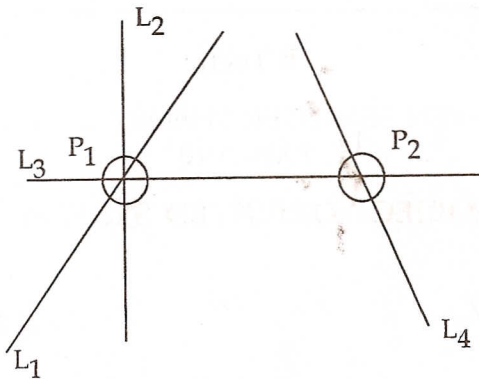
(ii) All questions carry *equal* marks.

1. Attempt any four parts of the following : $4 \times 5 = 20$
- What is the difference between object and instance ?
 - Describe the various elements of Data flow diagram with suitable example and their graphical representation.
 - How are the three models of OMT related to each other ?
 - Differentiate between Association and Aggregation.
 - Explain all the steps of Jackson Structured Development (JSD).
 - Define the following :
 - Multiple Inheritance
 - Meta data

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2. Attempt any four parts of the following : 4x5=20

- (a) Draw Class diagram and Instance diagram to show many to many association and links in the following figure :



L_1, L_2, L_3, L_4 are instances line class and P_1, P_2 are instances of point class.

- (b) What is concurrency ? Explain with suitable example.
- (c) Describe how actions are categorized and represented giving example in each case ? Draw a diagram showing various actions on transition of a lift door.
- (d) Can a class have more than one constructor ? If yes then how ?
- (e) What do you mean by nested state diagram ? Explain.
- (f) What do you mean by dynamic model ? Explain with example.

3. Attempt any four of the following : 4x5=20

- (a) Write short notes on :
- (i) Invariant (ii) Levelling
- (b) What is the relationship and difference between OOA and OOD.

- (c) Explain the layered architecture schemes for decomposition of system into subsystem.
- (d) What is an exception ? Discuss how exception handling is done in JAVA language ?
- (e) Prepare a data flow diagram for computing the volume and surface area of a cone. Inputs are height and radius of cone. Outputs are volume and surface area.
- (f) Differentiate between SA/SD and JSD methodology.

4. Attempt any two parts of the following : 2x10=20

- (a) Write short notes on :
- (i) String Handling
- (ii) Applet life cycle
- (iii) Layout manager
- (iv) Identifier
- (b) Discuss JDBC. Illustrate the different types of drivers of JDBC with their working.
- (c) Prepare a Scenario and Event trace Diagram of a Telephone line.

5. Attempt any two parts of the following : 2x10=20

- (a) Discuss the various methods available in Dynamic Billboard applet.
- (b) Define Java Beans and its advantages. What are the steps required to be followed to create a new bean ?
- (c) Discuss the various features of Lavatron Applet.

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