

Printed Pages: 4

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ECS-503

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

Paper ID :110513

Roll No.

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B.Tech.

(SEM. V) THEORY EXAMINATION, 2015-16

**OBJECT ORIENTED TECHNIQUES**

[Time:3 hours]

[MaximumMarks:100]

**Section-A**

Q.1 Attempt all parts. All parts carry equal marks. Write answer of each part in short.  $20 \times 10 = 20$

- (a) What is nested state diagram? Explain with suitable example.
- (b) Differentiate between early and late binding with an example.
- (c) Differentiate between Overriding and Overloading of function in java.
- (d) What is unified markup language?
- (e) What is activity diagram? Explain with suitable example.

- (f) Discuss the synchronization of concurrent activities.
- (g) Explain package bundling in java.
- (h) What do you mean by candidate keys in object modeling?
- (i) What is inheritance in java?

### **Section-B**

**Note:** Attempt any five questions from this section.  $10 \times 5 = 50$

- Q.2 Compare architectural modeling and behavioral modeling with justification.
- Q3. What is open data base connectivity (ODBC)? How it is used in java data base connectivity?
- Q4. Explain the Dynamic Model with an example.
- Q5. What do you mean by object modeling technique? Explain. Discuss the various stages of the object modeling techniques with some example.
- Q6. What do you mean by Scenarios? prepare an event trace for a phone call.
- Q7. Why Java does not support multiple inheritances? Justify.

Q8. Explain structured analysis and structured design (SA/SD) with example.

Q9. What is multi threading? How it is achieved in java.

### Section-C

**Note:** Attempt any two questions from this section.(15×2=30)

Q10. Write short notes on:

(a) AWT in Java

(b) Applet in java

(c) JDBC in Java

Q11. Write short notes on:

(a) Data Store

(b) Actors

(c) Control Flow

Q12. Compare each in detail:

- (a) Applet and Application
- (b) Abstraction and Encapsulation.

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