Printed Pages: 4



ECS-503

(Following Paper ID and Roll No. t	to be filled	in your Answ	ver Book)
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B. Tech

(SEM. V) (ODD SEM.) THEORY EXAMINATION, 2014-15

OBJECT ORIENTED TECHNIQUES

Time: 3 Hours]

[Total Marks: 100

Note:

Attempt All questions.

1. Answer any FOUR parts:

5x4=20

- (a) Define polymorphism. Is this concept only applicable to object oriented systems? Explain.
- (b) What is the difference between object-based and object oriented programming language?
- (c) What are the basic principles of Modeling? Explain in detail.
- (d) Why UML required? What are the basic architecture of UML?
- (e) "Object oriented programs are easy to maintain" Justify.
- (f) Explain generosity in java with suitable example.

110503]

1

[Contd...

2. Answer any FOUR parts:

5x4=20

- (a) Explain the Deployment Diagram. What is the difference between components and nodes?
- (b) Define package. Explain the package diagram with suitable diagram.
- (c) Write short notes on use case diagram with suitable diagram and their utility in system design.
- (d) What do you mean by activity diagram? Explain in detail.
- (e) Define State Machine? Draw a State Machine diagram for answering a telephone call.
- (f) What do you mean by event? What are the types of event explain with example?

3. Answer any TWO parts:

10x2=20

- (a) Compare the OMT methodology with SA/SD methodology. Explain with suitable example.
- (b) Write short notes on the following:
 - (i) Translating object oriented design into an implementation
 - (ii) Jackson Structured Development
- (c) Describe the relation of functional model, object model and dynamic models. What is relationship and difference between OOA (Object oriented analysis) and OOD (Object oriented design)?

110503]

2

[Contd...

- (a) (i) What do you mean by pure object oriented language? Is Java pure object oriented language? If yes How?
 - (ii) What is concept of constructor explain with example? Why it is needed?
- (b) (i) What do you mean by multithreading? Does it have an impact in the performance of Java? Explain.
 - (ii) Write a program in Java to read in two matrices from the keyboard and compute their sum.

 Overload toString() method to display the result matrix in row and column form.
- (c) Write down the difference between the following:
 - (i) Abstract class and Interface
 - (ii) Mouse Listener and Mouse Motion Listener
- 5. Answer any TWO parts:

10x2=20

- (a) Write short notes on the following with suitable examples:
 - (i) Applet and its life cycle
 - (ii) Java Swings

110503]

3

[Contd...

- (b) What do you understand by JDBC/ODBC bridge? Why it is required? How it is implemented in Java? Explain with an example.
- (c) Write short notes on any two of following:
 - (i) Java Servlets
 - (ii) AWT
 - (iii) Exception Handling Techniques
 - (iv) Enterprise Java Beans.

110503]

4

13300