Printed Pages : 2						EC	CS-503
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(SEMESTER-V) THEORY EXAMINATION, 2012-13 OBJECT ORIENTED TECHNIQUES

Time : 3 Hours]

[Total Marks : 100

SECTION – A

1. Attempt all questions :

$10 \times 2 = 20$

- (a) Name the three basic access specifiers in Object Oriented Programming?
- (b) The Techniques of binding data and functions together in a single unit is known as :
 - (i) Data Abstraction
 - (ii) Message passing
 - (iii) Encapsulation
 - (iv) Polymorphism
- (c) Is it true that compile time polymorphism is also known as dynamic binding?

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- (d) Explain the following terms :
 - (i) Applet
 - (ii) Servlet
- (e) Explain the mechanism of catching multiple exceptions.
- (f) Explain Operator overloading with suitable examples.
- (g) EJB is an abbreviation for what?
- (h) Write the names if any 4 UML diagrams and explain their use.
- (i) What is an abstract class ?
- (j) What is interface in Java?

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SECTION – B

2. Attempt any three questions.

- (a) What is the difference between Swing and AWT?
- (b) What are the advantages of Object Oriented Programming over procedural programming ?
- (c) Explain the principles of object oriented modeling with a suitable example.
- (d) Strings are immutable. Explain the statement.
- (e) What are the collections in Java. Where are they used ?

SECTION - C

	Attempt all questions. Each question carry equal marks.	$5 \times 10 = 50$
3.	Define Polymorphism and explain how runtime polymorphism is implemente example. OR Define polymorphism and explain compile time polymorphism with example.	d with an 10
4.	Explain JDBC with an example code. OR Explain utility of Java as internet programming language.	10
5.	Draw Use case diagram for a Restaurant system. OR Draw a State Chart diagram for a ticket booking system.	10
6.	What are exceptions ? When are they used ? Explain with a code snippet ? OR Explain multithreading in Java.	10
7.	Explain the difference between pass by value and pass by reference in deta code example. OR Explain Structured Analysis and Structure Designs (SA/SD) and Jackson Development	10
	Development.	

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