	Utech
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Invigilator's Signature :	

CS/B.Tech (CSE)/SEM-8/CS-802E/2010 2010 ADVANCED JAVA PROGRAMMING

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following: $10 \times 1 = 10$
 - i) The use of a DTD in XML development is
 - a) required when validating XML documents
 - b) no longer necessary after the XML editor has been customized
 - c) used to direct conversion using an XSLT processor
 - d) a good guide to populating a templates to be filled in when generating an XML document automatically.
 - ii) Which of the following is not a transaction isolation level in EJB?
 - a) Transaction _ read _ uncommitted
 - b) Transaction read committed
 - c) Transaction repeatable read
 - d) Transaction synchronous.

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- iii) DOM stands for
 - a) Domain Object Model
 - b) Document Object Model
 - c) Document Oriented Methodology
 - d) Domain Oriented Markup.
- iv) What is the initial contact point for handling a web request in a Page-centric architecture?
 - a) A JSP Page
- b) A JavaBean
- c) A Servlet
- d) A session Manager.
- v) Entity beans that have container-managed relationships with other entity beans, must be accessed in the same scope as those related beans to provide a local client view.
 - a) local

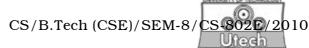
b) global

c) logical

- d) physical.
- vi) Scaling of an application to increase availability and throughput is called
 - a) Mapping
- b) Transforming
- c) Clustering
- d) Optimizing.
- vii) Main purpose of XML is
 - a) to reuse data
 - b) to save and transport data
 - c) to make connection between data

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d) none of these.



- viii) Which of the following is true?
 - a) doGet () has higher data transfer capacity than doPost ()
 - b) doPost () and doGet () has same data transfer capacity
 - c) doPost () has unlimited data transfer capacity whereas doGet () has limited data transfer capacity
 - d) doGet() has unlimited data transfer capacity whereas doPost () has limited data transfer capacity.
- ix) Stub is a member to which of the following technologies?
 - a) JINI

b) JDO

c) JAXB

- d) RMI.
- x) Which of the following JDBC driver types is called "native"?
 - a) Type 2

b) Type 1

c) Type 4

d) Type 1.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$

2. What is Servlet? How is it different from CGI technology?

2 + 3

- 3. Critically compare between JSP and Servlet. Discuss the main features of the life cycle of JSP. 2+3
- 4. What is the difference between Message Driven beans and Stateless Session beans?
- 5. Explain layer architecture of RMI. Does RMI-IIOP support dynamic downloading of classes? Justify your answer. 3 + 2
- 6. What is a directory service? How to use LDAP to work with a directory service? 2 + 3

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GROUP - C

(Long Answer Type Questions)

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		Answer any <i>three</i> of the following. $3 \times 15 = 4$	15
7.	a)	Define HTTP Tunneling.	3
	b)	Explain how servlets differ from RMI. Explain the advantages and disadvantages of each technology.	1e 7
	c)	Describe different types of servlet collaboration.	5
8.	a)	Explain the 3 main components of MVC architectur i.e., Model, view and controller.	e, 6
	b)	Explain the difference between DOM and SAX.	4
	c)	What is the difference between Java Bean are Enterprise Java Bean ?	nd 5
9.	a)	What makes J2EE suitable for distributed multitiered Applications?	ed 5
	b)	Explain JTA and JTS in brief.	5
	c)	What are implicit objects in JSP? What is the difference between forward and send Redirect?	се 5
10.	a)	What is JDO ? How is it different from Value Object ?	5
	b)	What is the difference between Bean Factory an Application context?	ıd 5
	c)	How does EJB invocation happen?	5
11.	Writ	te short notes on any <i>three</i> of the following : $3 \times$	5
	a)	JAXP and JAXB	
	b)	JNDI	
	c)	Significance of JINI in web Application	
	d)	n-tier architecture	
	e)	FAT controller.	

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