

Name : .....

Roll No. : .....

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
  - d) none of these.



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**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

7. a) Define HTTP Tunneling. 3  
 b) Explain how servlets differ from RMI. Explain the advantages and disadvantages of each technology. 7  
 c) Describe different types of servlet collaboration. 5
8. a) Explain the 3 main components of MVC architecture, i.e., Model, view and controller. 6  
 b) Explain the difference between DOM and SAX. 4  
 c) What is the difference between Java Bean and Enterprise Java Bean ? 5
9. a) What makes J2EE suitable for distributed multitiered Applications ? 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 ? 5
10. a) What is JDO ? How is it different from Value Object ? 5  
 b) What is the difference between Bean Factory and Application context ? 5  
 c) How does EJB invocation happen ? 5
11. Write short notes on any *three* 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.