[ Turn over

						Ulledh
Name :						
Roll No.:						
Invigilator's Signature :						
CS/B.TECH (CSE)/SEM-8/CS-802E/2011						
2011						
ADVANCED JAVA PRAGRAMMING						
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.	1. Choose the correct alternatives for the following:					
						10 × 1 = 10
	i)	Which HTTP methods are NOT considered idempotent				onsidered idempotent?
		a)	GET		b)	POST
		c)	HEAD		d)	PUT.
	ii)	Which HTTP methods are used to show the client what				
	the server is receiving?					
		a)	GET		b)	RETURN
		c)	TRACE		d)	OPTIONS.
	iii)	When using a RequestDispatcher, the use of which				
	methods can often lead to an IllegalStateException?					
		a)	read		b)	flush
		c)	write		d)	getOutputStream.

8306

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- iv) Which type of objects can store attribute?
  - a) HttpServletRequest
- b) ServletConfig
- c) ServletResponse
- d) RequestDispatcher.
- v) Which deployment descriptor elements may appear before the < web-app > element?
  - a) < listener >
  - b) < context-param >
  - c) < servlet >
  - d) No XML element may appear before the< web-app > element.
- vi) Which type of objects are available to the jspInit () method?
  - a) ServletConfig
- b) JspServletConfig
- c) JspServletContext
- d) HttpServletRequest.
- vii) Which JSP lifecycle step is out of order?
  - a) Translate the JSP into a servlet
  - b) Compile servlet source code
  - c) Call jsp Service ()
  - d) Instantiate the servlet class.
- viii) Which are valid JSP implicit variables?
  - a) stream

- b) context
- c) listener
- d) exception.
- ix) Given a JSP page with the line:

\$ {101 % 10}

The output is

a) 1

b) 10

c) 1001

d) 101 % 10

8306

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- x) Where should web.xml be stored in a WAR file?
  - a) In / WEB-INF/classes b) In / WEB-INF/lib
  - c) In / WEB-INF d) In / META-INF.

#### **GROUP - B**

### (Short Answer Type Questions)

Answer any *three* of the following.  $3 \times 5 = 15$ 

- 2. Explain JINI Technology ? What is JNDI ? What is the significance of it ? 2 + (2 + 1)
- 3. Explain the use of following JSP tags action elements:
  - i) useBean ii) getProperty iii) setProperty. 1 + 2 + 2
- 4. What is the significance of Entity Bean ? Explain CMP and BMP Entity Bean. [2 + 3]
- 5. Briefly explain MVC Architecture. What is the advantage of 3 tier architecture over 2 tier architecture? 3 + 2
- 6. What are Servlets ? Briefly explain the various sessions Management Technique available in Servlets. 1 + 4

#### **GROUP - C**

## (Long Answer Type Questions)

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

- 7. a) What is the difference between Servlets and CGI?
  - b) What is Servlets API? Describe the Life cycle of Servlets.
  - c) What is Servlets container? What role does it play?
    Briefly define different containers available in Servlets.

3 + 2 + 5 + 5

8306 3 Turn over

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- 8. a) What is JDBC ? Discuss different types of JDBC Driver available in java.
  - b) Give a brief description of the following:
    - i) Statement ii) PreparedStatement iii) Callable Statement
  - c) Write a Java Program, which will display all the records from a database (use JDBC-ODBC bridge driver, Table Name = "EMP" with fields like [empid Number, Ename taxt (10), Salary number]. Assume access database is running in your machine & DSN is TEST)

$$2 + 4 + 3 + 6$$

- 9. a) What is Enterprise Java Bean? How does it differ form normal Java Bean?
  - b) What are the types of Bean available in EJB? Explain in short.
  - c) Explain the feature of entity bean? What are the ways to persist entity bean? 1 + 2 + 5 + 4 + 3
- 10. a) What are the differences between JSP and JDBC?
  - b) Describe the Life cycle of JSP
  - c) Explain in brief the various tags available in JSP
  - d) Describe static, active and dynamic web pages.

$$3 + 4 + 5 + 3$$

- 11. a) What is XML? How does it differ from HTML?
  - b) Briefly define the architecture of XML with a neat sketch diagram.
  - c) What is the advantage of XML ? Describe the XML schema in brief. 2 + 2 + 5 + 3 + 3

8306