	<u> </u>
Name:	<b>A</b>
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.	Cho	Choose the correct alternatives for the following:					
					10 × 1 = 10		
	i)	Which HTTP methods are NOT considered idempotent?					
		a)	GET	b)	POST		
		c)	HEAD	d)	PUT.		
	ii) Which HTTP methods are used to show the client						
		the server is receiving?					
		a)	GET	b)	RETURN		
		c)	TRACE	d)	OPTIONS.		
	iii) When using a RequestDispatcher, the use of v						
	methods can often lead to an IllegalStateException?						
		a)	read	b)	flush		
		c)	write	d)	getOutputStream.		

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HttpServletRequest

before the < web-app > element?

ServletResponse

< context-param >

< web-app > element.

< listener >

< servlet >

ServletConfig

JspServletContext

Call jsp Service ()

Given a JSP page with the line:

Translate the JSP into a servlet

Compile servlet source code

Instantiate the servlet class.

b)

d)

b)

d)

b)

d)

b)

d)

2

10

101 % 10

iv)

v)

vi)

vii)

a)

c)

a)

b)

c) d)

a)

c)

b)

c)

a)

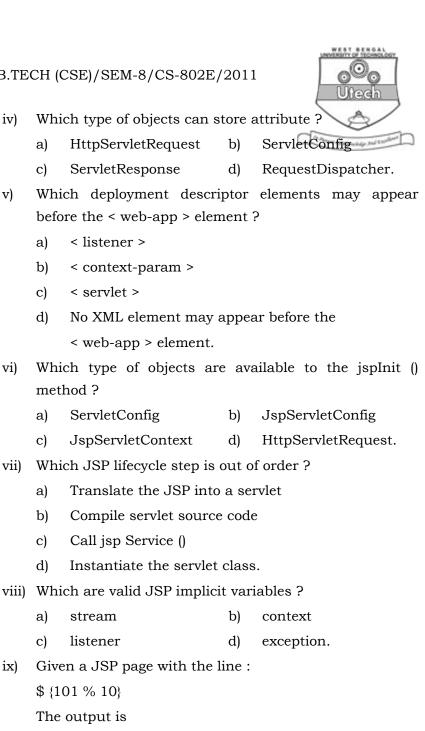
c)

a)

c)

ix)

method?



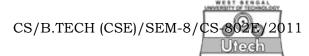
1001

stream

listener

\$ {101 % 10} The output is

1



- 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

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### CS/B.TECH (CSE)/SEM-8/CS-802E/2011



- 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

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