



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



- 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

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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.

$3 + 2 + 5 + 5$

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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 text (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