



DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY
B.TECH – SEMESTER – VI, IT
SUBJECT: [IT 617] ADVANCED JAVA TECHNOLOGY

Examination : Third Sessional
Date : 02/04/2018
Time : 12:00 to 01:15 PM

Seat No. :
Day : Monday
Max. Marks : 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
 2. The symbols used carry their usual meanings.
 3. Assume suitable data, if required & mention them clearly.
 4. Draw neat sketches wherever necessary.
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- Q.1 Do as directed.** [12]
- (a) Draw life-cycle of an Iteration Tag. [2]
 - (b) Explain in context of Tag Handler API 2.0. [2]
 1. doTag()
 2. JspFragment
 - (c) State: True/False. [2]
 1. BodyContent is super class of JspWriter.
 2. PageContext object is available to tag handler class, for requested jsp.
 - (d) Explain the situations in which remote or local interfaces of enterprise bean should be used. [2]
 - (e) Differentiate between Container Managed persistence and Bean Managed persistence. [2]
 - (f) How do you decide whether a component should be implemented as a session bean or entity bean? [2]
- Q.2 Attempt *Any Two* from the following questions.** [12]
- (a) Implement custom tag math, which should display square of a number iteratively based on repeat count attribute. [6]

`<math: square number="{no}" repeat="5"/>`

Write supported files used to implement tag. Number attribute value, “no” should be passed dynamically.
 - (b) Implement the custom tag count using Body Tag Support class. The count tag is used to display total no. of words present in the body of the count tag, also it should display body content in reverse order. Write following files: Tag Handler, TLD, and use of custom tag. [6]
 - (c)
 1. Explain the life cycle of the BodyTag in with the help of neat diagram. [3]
 2. Differentiate between EVAL_BODY_BUFFERED, EVAL_BODY_INCLUDE and SKIP_BODY. [3]
- Q.3 Attempt *ALL* from the following questions.** [12]
- (a) Create and use CMP entity bean to model Book database table. The Book has Book ID, title, publication, price, and author. The bean provides facility of searching a Book based on title and author. Write required interfaces, bean implementation and deployment descriptor files. [6]
 - (b) Create a Session bean that allows calculating EMI for vehicle loan. The user provides the duration (in years) of loan, and the session bean calculates the EMI based on current interest rate. Write required interfaces and bean implementation files. [6]
- OR**
- Q.3 Attempt *ALL* from the following questions.** [12]
- (a) Create and use BMP entity bean to model Employee database table. The Employee has Emp ID, EmpName, EmpSalary, and EmpDept. The bean provides facility of searching an employee based on ID and Name. Write required interfaces, bean implementation and deployment descriptor files. [8]
 - (b) Draw and discuss life cycles of session bean. [4]