Examination	:	Third Sessional	Seat No	:	CE-81
Date	:	28 / 03 / 2018	Day	:	Wednesday
Time	:	10:00 am to 11:15 am	Max Marks	:	36

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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.

Q.1   Do as Directed

(a) How HQL is different from SQL? What is the biggest advantage of using HQL than SQL? [2]

(b) What are the states of object in hibernate? [2]

(c) Which activities would be addressed via a J2EE 1.4 container's data **integrity** mechanism? (Choose all that apply.) [2]

   A. Verifying that a specific user is allowed access to a specific HTML page.

   B. Ensuring that an eavesdropper can't read an HTTP message being sent from the client to the container.

   C. Verifying that a client making a request for a constrained JSP has the proper role credentials to access the JSP.

   D. Ensuring that a hacker can't alter the contents of an HTTP message while it is in transit from the container to a client.

(d) Explain role of building tools. List at least two building tools. [2]

(e) Which SimpleTag mechanism will tell a jsp page to stop processing? [2]

(f) Explain use of <%@attribute %> with respect to tag file. [2]

Q.2   Answer the following questions (Any TWO)

(a) Explain <security-constraint> element in the deployment descriptor. [6]

(b) Explain Hibernate architecture and its components using appropriate diagram. [6]

(c) Write a java RMI program for Fibonacci service. Also write a client program which uses that service to get Fibonacci series up to n terms. [6]

Q.3   Answer the following questions.

(a) Write a web based java application for demonstrating use of Classic custom tag. This application must contain following components. [6]

   • Input.jsp: It is an input form, which takes a string from user and submit it to the capital.jsp.

   • capital.jsp: It is a scriptless jsp which invokes a classic tag capString to capitalize the input string. The input string is passed to the tag as body text.

   • CapitalStringHandler.java : It is a handler class for classic tag capString. It converts the input string to capital and prints the result to the user.

(b) Which are different types of dependency injection and how spring handles it ? [6]

OR

Q.3   Answer the following questions

(a) Explain life cycle of custom tag and classic custom tag. [6]

(b) Develop the web based application using classic custom tag for following requirement. [6]

Imagine you have a tag look like this

```
<table>
  <mytag:MovieTag>
   <tr><td>${movie}</td></tr>
  </mytag:MovieTag>
</table>
```

Imagine that tag handler has access to an array of String moviename and you wants to print one raw for each movie name.