Examination	: Second Sessional	**Seat No.**	:
Date	: 03/09/2013	**Day**	: Tuesday
Time	: 1:00 to 2:15	**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.

Q.1 **Do as directed**.
  (a) State difference between request dispatcher and sendRedirect(). [2]
  (b) What ${cookie.userName.value} this EL will print? [2]
  (c) In JNI based application, what native formats/filetypes are used in Microsoft Windows [2]
     based OS and Linux based OS?
  (d) Explain isErrorPage and errorPage attributes of JSP page directive. [2]
  (e) (i) Default scope for objects used with the <jsp:useBean> action is_____. [2]
     (ii) The out implicit object of of JSP is of _____ class.
  (f) What is the purpose of isNew() and invalidate() methods of session management? [2]

Q.2   Attempt *Any Two* from the following questions.
  (a) Write the JSP code, with the use of JSTL core and sql tags, which prints employee [6]
     information stored in database and display it on JSP with blue color.
  (b) What is JNI? How it will be helpful in java based language based software? Explain [6]
     with example all the development steps of building JNI based application.
  (c) Discuss custom tag in JSP. Explain development of <mydate/>, which should display [6]
     server's current date. Write following files: Tag Handler, TLD, and use of custom tag.

Q.3   Attempt following questions.
  (a) (i) Explain Expression Language implicit objects. [3]
     (ii) Explain <jsp:useBean>,<jsp:getProperty> and <jsp:setProperty> with an [3]
     example
  (b) What are ServletContext and ServletConfig? What is their importance? Write a servlet [6]
     program which demonstrates use of these objects.

OR

Q.3   Attempt following questions.
  (a) Explain the idea of session management in web application. What are the different [6]
     approaches for session tracking? Explain URL rewriting with an example.
  (b) Write JSP code, with the use of JSTL, in which you have to take a number and user [6]
     name from a user. And check the following condition.
        a) Given number is prime or not.
        b) Given number is even or not.
     Also it displays welcome message with user name given number of times.