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**USN**

**RNS Institute of Technology**

**Department of MCA**

**IV Semester - II Test – April 2018**

**Advance Java Programming (16MCA41)**

**Duration: 90 mins. Max Marks: 45 Time: 9:00-10:30 am Date: 11/04/18**

**NOTE: Answer *FIVE* full questions.**

***Don’t write anything on question paper other than USN.***

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| **Qn.**  **No.** | | **Questions** | **Marks** | **BCL** | **CO** |
| 1 | a) | How to create Template Text in JSP? Discuss. | 4 | L1 | CO1 |
|  | b) | What are the uses of JSP expressions? Explain with example. | 5 | L1, L2 | CO1 |
| **OR** | | | | | |
| 2 | a) | With an example, write the equivalent statements in servlet by comparing JSP scripting elements. | 8 | L1 | CO1 |
|  | b) | Mention the default values of contentType in JSP. | 1 | L1, L4 | CO1 |
|  | | | | | |
| 3 | a) | List and explain all the predefined variables of JSP | 8 | L1 | CO1 |
|  | b) | Name the default values of pageEncoding in JSP. | 1 | L1, L2 | CO1 |
| **OR** | | | | | |
| 4 | a) | What is Directive Tag? Mention its types. | 3 | L1, L3 | CO1 |
|  | b) | Design a JSP program to find a given number is EVEN or ODD. | 7 | L1, L4 | CO2 |
|  | | | | | |
| 5 |  | Explain the following page attributes:  i)buffer and autoFlush ii) errorPage and isErrorPage | 4+5 | L1 | CO1 |
| **OR** | | | | | |
| 6 | a) | Differentiate <jsp:include> tag and include directive tag. | 4 | L1 | CO1 |
|  | b) | Write a JSP program to implement verification of a particular user login and display a welcome page using action tag. | 5 | L1, L4 | CO2 |
|  | | | | | |
| 7 |  | Write a short notes:  i) import and session ii) isThreadSafe and isELIgnored | 4+5 | L1,L3 | CO1 |
| **OR** | | | | | |
| 8 | a) | Explain <jsp:plugin> tag. List and discuss the mandatory attributes of it. | 4 | L1, L4 | CO1 |
|  | b) | Develop a JSP program which uses <jsp:plugin> to run an applet. | 5 | L1 | CO1 |
|  | | | | | |
| 9 | a) | What is a Java Bean? How are they different from Java Class? | 4 | L1 | CO1 |
|  | b) | Write a java JSP program to get EMPLOYEE information through HTML and create a java bean class, populate bean and display the same information through another JSP. | 5 | L1, L2 | CO1 |
| **OR** | | | | | |
| 10 | a) | How are jar files created and used? Explain options of jar files. | 5 | L1 | CO1 |
|  | b) | Define packages? Explain sub packages with an example. | 4 | L1 | CO1 |

**Subject Co-ordinators Scrutinizer HoD**

1. **Suma M G**
2. **Rajatha S**

**Course Outcomes:**

**CO1:** Learn the concept of Servlet and its life cycle, JSP and its tag

**CO2:** Understand JSP tags and develop applications using JSP Tags.

**CO3:** Create packages and interfaces

**CO4:** Build Database connection

**CO5:** Develop Enterprise Java Bean Applications