|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |

**USN**

**RNS Institute of Technology**

**Department of MCA**

**IV Semester - I Test – March 2018**

**Advance Java Programming (16MCA41)**

**Duration: 90 mins. Max Marks: 45 Time: 9:00-10:30 am Date: 12 /03/18**

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Qn.**  **No.** | | **Questions** | **Marks** | **BCL** | **CO** |
| 1 | a) | Define Servlet. Mention its job. | 4 | L1 | CO1 |
|  | b) | Explain the life cycle of Servlet. | 5 | L1, L2 | CO1 |
| **OR** | | | | | |
| 2 | a) | Discuss the structure of basic servlet in detail. | 5 | L1 | CO1 |
|  | b) | Write a JAVA Servlet Program to Auto Web Page Refresh (Consider a webpage which is displaying Date and time). | 4 | L1, L4 | CO1 |
|  | | | | | |
| 3 | a) | What is query data? Give an example. | 2 | L1 | CO1 |
|  | b) | Explain the following:  i) getParameterNames() ii) getParameterValues() | 7 | L1, L2 | CO1 |
| **OR** | | | | | |
| 4 | a) | Differentiate get and post methods. | 4 | L1, L3 | CO1 |
|  | b) | Write a java servlet program to implement and demonstrate get() and post() methods using HTTP servlet class | 5 | L1, L4 | CO1 |
|  | | | | | |
| 5 | a) | List and explain any 5 fields of http request headers. | 8 | L1 | CO1 |
|  | b) | Mention the default request type. | 1 | L1 | CO1 |
| **OR** | | | | | |
| 6 | a) | Discuss any 4 methods to read request headers information. | 4 | L1 | CO1 |
|  | b) | Design a servlet code to display all http request headers. | 5 | L1, L2 | CO1 |
|  | | | | | |
| 7 | a) | Narrate the major range of http status codes along with their purpose. | 5 | L1,L3 | CO1 |
|  | b) | Write a short note on sendRedirect(). | 4 | L1 | CO1 |
| **OR** | | | | | |
| 8 | a) | What are Cookies? Explain the steps to create, read and destroy cookies. | 6 | L1, L4 | CO1 |
|  | b) | Describe the advantages of Cookies. | 3 | L1 | CO1 |
|  | | | | | |
| 9 | a) | Mention the different types of Session tracking. | 2 | L1 | CO1 |
|  | b) | How HttpSession is maintained? Demonstrate the program using HttpSession to track the session. | 7 | L1, L2 | CO1 |
| **OR** | | | | | |
| 10 | a) | Illustrate the advantages of JSP. | 3 | L1 | CO1 |
|  | b) | Explain the Scripting Elements in JSP. | 6 | 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