**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, APRIL 2023**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **2BC4161** | Roll No. | Total Printed Pages: 1 |
| **2BC4161** |  |
| BCA II Year IV- Semester (Main/Back) End Semester Examination, April 2023  **(Gen)** | |
| **BCACCA4103 : Advance Java Programming** | | | |

# Time: **3**Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.--------------------Calculator-----------------** **2.------------------Nil-----------------------**

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

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **UNIT-I (CO1)** | **Marks** |
| **Q.1** | **(a)** | **What is a Servlet? What is the difference between a Generic Servlet and HTTP Servlet? What are the life cycle methods of a servlet with diagram?** | **(6)** |
|  |  |  |  |
|  | **(b)** | **Explain the Servlet Filter. Why do we need Servlet Filter? Explain Life Cycle of filter?** | **(6)** |
|  |  | **OR** |  |
| **Q.2** | **(a)** | **What is the difference between ServletConfig and ServletContext? Which method is use to retrieved parameter of servletContext with syntax?** | **(6)** |
|  |  |  |  |
|  | **(b)** | Explain session Management and its need? What are Session Tracking Techniques explain each with 2 to 3 lines? | **(6)** |
|  |  | **UNIT-II (CO2)** |  |
| **Q.3** | **(a)** | **What is JSP? What are the different Life-Cycle methods?** | **(6)** |
|  |  |  |  |
|  | **(b)** | **What is different between Servlet and jsp?** | **(6)** |
|  |  | OR |  |
| **Q.4** | **(a)** | **What are Implicit Objects  in jsp?** | **(6)** |
|  |  |  |  |
|  | **(b)** | Write a program in jsp of database connectivity and display a recorded of a table? | **(6)** |
|  |  | **UNIT-III (CO3)** |  |
| **Q.5** | **(a)** | What is JSF? What is the life cycle of JSF? What are the features of JSF (Java Server Faces)? | **(6)** |
|  |  |  |  |
|  | **(b)** | What is managed bean in JSF (Java Server Faces)? Write a program to retrieve parameter of Bean in JSF? | **(6)** |
|  |  | **OR** |  |
| **Q.6** | **(a)** | What is UI Component? Explain any three tag in JSF? | **(6)** |
|  |  |  |  |
|  | **(b)** | Write a program in jsf JDBC take username from Bean and delete a data m from database? | **(6)** |
|  |  | **UNIT-IV (CO4)** |  |
| **Q.7** | **(a)** | What is hibernate? What is ORM Tool? What are Advantage of hibernate | **(6)** |
|  |  |  |  |
|  | **(b)** | Explain Hibernate architecture  With Diagram? | **(6)** |
|  |  | **OR** |  |
| **Q.8** | **(a)** | What is Hibernate Query Language? Explain with example? | **(6)** |
|  |  |  |  |
|  | **(b)** | Write a program in hibernate to store a data and update in database 1.Student.java(Bean) 2.Configration file(app.java) 3.Hibernate Mapping.xml | **(6)** |
|  |  | **OR** |  |
| **Q.9** | **(a)** | What is a spring Framework? Explain with diagram? | **(6)** |
|  |  |  |  |
|  | **(b)** | What are the features of Spring Framework? | **(6)** |
|  |  |  |  |
|  |  | **OR** |  |
| **Q.10** | **(a)** | What do you understand by Dependency Injection? | **(6)** |
|  |  |  |  |
|  | **(b)** | Explain Bean life cycle in Spring Bean Factory Container? | **(6)** |