

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**Sixth Semester of B. Tech (CE) Examination****May-June 2017****CE307.02/CE307.01/CE307 Advanced Java Programming****Date: 08.06.2017, Thursday****Time: 10.00 a.m. To 01.00 p.m.****Maximum Marks: 70****Instructions:**

1. The question paper comprises two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.

SECTION – I**Q - 1 Answer the following questions.**

- A.** Consider the following HTML page code: **[01]**

```
<html><body>
```

```
    <a href="/servlet/HelloServlet">POST</a>
```

```
</body></html>
```

Which method of HelloServlet will be invoked when the hyperlink displayed by the above page is clicked?

- B.** Differentiate between ServletConfig and ServletContext object with example. **[03]**

- C.** Explain getByName() and getLocalHost() InetAddress class methods. Give example. **[03]**

- Q – 2.A** List and Explain Different types of JDBC Drivers along with Advantages and disadvantages of each JDBC driver. **[07]**

- Q – 2.B** Answer the following questions [Attempt Any one]. **[07]**

- 1.** What is Deployment Descriptor? Explain following Deployment Descriptor elements.

1. <servlet-mapping>

2. <error-page >

3. <welcome-file-list>

- 2.** Explain the use of JDBC PreparedStatement with appropriate example.

- Q - 3** Answer the following questions. [Attempt Any Two]. **[14]**

- A.** What is ResultSet Object in JDBC? Explain following ResultSet cursor types with example.

1. TYPE_FORWARD_ONLY

2. TYPE_SCROLL_INSENSITIVE

3. CONCUR_UPDATABLE

- B.** Bob want to chat with Alice, To provide chat solution, you have to write UDP server client program.

- C. Assume you have a Servlet named “SecureServlet.” Write a filter that will block all the requests to “SecureServlet” from IP address 172.16.12.5. Also apply this filter to the servlet using Deployment Descriptor entry.

SECTION – II

Q - 4 Answer the following questions.

A. What are cookies and session? [01]

B. Consider the contents of two JSP files: [02]

File 1: this.jsp

```
<html>
<body>
<pre>
<jsp:include page="that.jsp" >
    <jsp:param name="color" value="red" />
    <jsp:param name="color" value="green" />
</jsp:include>
</pre>
</body>
</html>
```

File 2: that.jsp

```
<%
String colors[] = request.getParameterValues("color");
for (int i=0; i<colors.length; i++)
{
    out.print(colors[i] + " ");
}
%>
```

What will be the output of accessing the this.jsp file via the following URL?

<http://localhost:8080/jspDemo/this.jsp?color=blue>

C. Will the following code compile? If yes What will be the output? [02]

```
<% int x=3; %>
<% ! int x=5; %>
<% ! int y=6; %>
```

The sum of x and y is <%=x+y%>

D. What is the output of the following code? [02]

```
<% int i; %>
<% for(i=0; i<3; i++) %>The value of i is
<%= i %>
```

Q – 5.A What is JSP (Java Server Pages)? What are the benefits of JSP over Servlet? Draw and explain Life cycle of JSP. [07]

Q – 5.B Write a JSTL program for Viral who wants to fetch 6th semester CE students' details (ID, Name, Email Id, Mobile No., Result of All Semester) from the university database server which is running on MySql. [07]

OR

Q – 5.A What is JSF (Java Server Faces)? Draw and explain the life cycle of JSF along with advantages and disadvantages. [07]

Q – 5.B Enlist and explain usage of various implicit JSP objects. [07]

Q – 6. Answer the following. [Attempt any two] [14]

- A.** Draw and explain Hibernate Architecture and Object Relation Mapping in Hibernate.
- B.** Draw Spring Architecture. Explain Dependency Injection along with advantages in Spring. Give suitable example.
- C.** What are the available scopes for managed bean in JSF? Explain following JSF UI (User Interface) and Validation components with example.
 - 1. <h:inputText>
 - 2. <f:validateLength>
 - 3. <h:dataTable>