Enrollment No: _____   Exam Seat No: _____

C. U. SHAH UNIVERSITY
Summer Examination-2017

Subject Name : Advanced Java Technology

Subject Code : 4TE06AJT1   **Branch : B.Tech (CE,IT)**

Semester : 6   **Date : 13/04/2017**   **Time : 02:30 To 05:30**   **Marks : 70**

Instructions:

    (1) Use of programmable calculator & any other electronic instrument is prohibited.
    (2) Instructions written on main answer book are strictly to be obeyed.
    (3) Draw neat diagrams and figures (if necessary) at right places.
    (4) Assume suitable data if needed.

Q-1   **Attempt the following questions:**

a)	List out different layout manager available in JAVA swing.	**01**
b)	Which class is used for selecting only one Radio Button at a time in Swing?	**01**
c)	List out different types of JDBC drivers.	**01**
d)	Which method is implemented for ActionListener interface?	**01**
e)	What is the use of CallableStatement?	**01**
f)	Define RMI registry.	**01**
g)	What is the use of include directive in JSP?	**01**
h)	Which listener is used for JCheckBox component?	**01**
i)	What is the use of web.xml file?	**01**
j)	Define JSTL.	**01**
k)	What is the use of taglib directive?	**01**
l)	What is O/R mapping in hibernate?	**01**
m)	What do you mean by servlet filter?	**01**
n)	Define socket.	**01**

Attempt any four questions from Q-2 to Q-8

Q-2   **Attempt all questions:**

(b)	Create a simple calculator using swing components.	**(06)**
(c)	Explain difference between Session and Cookie in Servlet using suitable example.	**(08)**

Q-3   **Attempt all questions:**

(b)	Write a note on : 3-tier J2EE Architecture.	**(06)**
(c)	Explain difference between Statement and PreparedStatement using suitable example.	**(08)**

Q-4   **Attempt all questions:**

(a)	Differentiate: AWT and Swing.	**(06)**
(b)	Write a JAVA program that can accept Student's details such as Roll Number, Enrollment Number, Name, Semester, Branch, Birthdate, Gender, Address, Mobile	**(08)**

Number, Email Address and Hobbies. Store these details into Student_Details table using JDBC.

Q-5   **Attempt all questions:**
- **(a)** Write a servlet that print "C U Shah University" using HTTP and Generic Servlet. **(06)**
- **(b)** Create a UDP client that can send a String to the UDP server and also create a UDP sever that can accept the String sent by client and converts that String into uppercase and returns back to the client. **(08)**

Q-6   **Attempt all questions:**
- **(a)** Create JSP application for Login using JDBC. **(06)**
- **(b)** Explain difference between Http Redirection (sendRedirect()) and RequestDispatcher. (forward()) with suitable example. **(08)**

Q-7   **Attempt all questions:**
- **(a)** Explain scripting elements of JSP with suitable example. **(06)**
- **(b)** Explain difference between Servlet Config and Servlet Context with suitable example. **(08)**

Q-8   **Attempt all questions:**
- **(a)** Explain Hibernate architecture. **(06)**
- **(b)** Create an RMI method to check whether the string is palindrome or not and also create stub and utilize that method. **(08)**