

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

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

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

**Q-2 Attempt all questions:**

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

**Q-3 Attempt all questions:**

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

**Q-4 Attempt all questions:**

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



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)

