

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name: Advanced Java Technology**Subject Code: 4TE06AJT1****Branch: B.Tech (CE,IT)****Semester: 6****Date: 25/04/2018****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 :**(14)**

- a) What do you mean by light weight component in java?
- b) Explain JCheckbox.
- c) What do you mean by pluggable look and feel in swing?
- d) Explain JCombobox.
- e) What do you mean by driver in JDBC?
- f) Explain CallableStatement?
- g) What is event listener?
- h) What is the difference between Label and JLabel?
- i) Define servlet?
- j) Explain <JSP:forward>.
- k) Explain expression elements in JSP?
- l) Explain ServerSocket?
- m) Explain JSP taglib directive?
- n) What is RMI?

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

- a) What are features of java swing? Explain swing mvc in brief. **05**
- b) Write a swing program that convert miter into centimeter and kilometer. **05**
- c) What is layout manager? Explain any two layout manager. **04**

Q-3 Attempt all questions

- a) Explain Types of Driver in JDBC in details. **06**
- b) Writes a Swing program to insert student's details in database. **05**
- c) Explain Preapared Statement. **03**

Q-4 Attempt all questions

- a) Explain life cycle methods of servlet. **04**
- b) Write a servlet program for user authentication using JDBC. **06**



c) Explain Request Dispatcher with example. **04**

Q-5 Attempt all questions

a) Differentiate between JSP and Servlet. **02**

b) Explain Servlet filter with example. **06**

c) Explain JSP directives with example **06**

Q-6 Attempt all questions

a) Explain n-tier architecture of J2EE in brief. **04**

b) Explain life cycle phase of JSP **05**

c) Write a servlet/JSP application program to demonstrate session. **05**

Q-7 Attempt all questions

a) Explain Steps for RMI application with example. **07**

b) What is socket programming? Explain Socket, ServerSocket and DatagramSocket in brief. **07**

Q-8 Attempt all questions

a) Write a java client program that can send a message to a server program, and a server program that accepts that message and acknowledge client program. **07**

b) What is Hibernate? Explain OR mapping in Hibernate in brief **07**

