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.

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**