Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Summer Examination-2017

Subject Name: Programming with Java - II

Subject Code: 4CS04IJV2   **Branch: B.Sc.I.T.**

Semester: 4   **Date: 12/04/2017**   **Time: 10:30 To 01:30**   **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) The Top level windows in swings are   1
   1. JFrame   2. JApplet   3. JWindow   4. All of the above

b) The following specifies the advantage of It is lightweight. It supports pluggable look
   and feel. It follows MVC (Model View Controller) architecture.   1
   1. Swing   2. AWT   3.Both A & B   4. None of the above

c) The ActionListener interface is used for handling action events For example it's used by
   a   1
   1. JButton   2. JCheckbox   3. JMenuItem   4. All of these

d) Which of the following is a loop back address?   1
   1. 127.0.0.1   2. 127.0.0.0   3. 129.0.0.1   4. None of these

e) In which folder of tomcat you should put your web application   1
   1. web-app   2. web-apps   3. webapp   4. webapps

f) The doGet() method in the example extracts values of the parameter's type and number
   by using _____.   1
   1. response.getAttribute ()   2. responce.getParameter()
   3. request.getParameter()   4. request.setParameter()

g) Which JDBC driver Types can be used in either applet or servler code?   1
   1. Both Type 1 and Type 2   2. Both Type 3 and Type 4
   3. Type 4 only   4. Both Type 1 and Type 3

h) The life cycle of a Servlet is managed by   1
   1. The supporting protocol (http & https)   2. Servlet Context
   3. Servlet Itself   4. Servlet Container

i) The include() method of RequestDispatcher
   1. Appends the request object to the current Servlet
   2. Sends a request to another resource like Servlet, jsp or html   1
   3. Appends the response object to the current Servlet
   4. Include resource of file like Servlet, jsp or html

j) Which programming languages or scripting languages does Java Server Pages (JSP) support.   1

1. VB Script   2. Java only   3. Any programming language Code   4. Java Script

k) Which method is used to specify a container's layout in JSP?   1

1. setConLayout()   2. setContainerLayout()   3. setLayout()   4. layout()

l) Which of this package is used for remote method invocation?   1

1. java.applet   2. java.rmi   3. java.lang.rmi   4. java.lang.reflect

m) Which of these Exceptions is thrown by remote method?   1

1. RemoteException   2. InputOutputException

3. RemoteAccessException   4. RemoteInputOutputException

n) Which of the following holds data retrieved from a database after you execute an SQL query using Statement objects?   1

1. ResultSet   2. JDBC driver   3. Connection   4. Statement

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

Q-2		**Attempt all questions**	**(14)**
	a.	What is Layout manager? Explain any three Layout Managers with suitable examples.	7
	b.	What is Swing? Explain JButton and JTextField classes with suitable examples.	7
Q-3		**Attempt all questions**	**(14)**
	a.	Explain Two-Tier architecture in java.	5
	b.	Explain JPasswordField and JCheckBox classes with suitable examples.	5
	c.	What is RMI? Explain stub and Skeleton with suitable examples.	4
Q-4		**Attempt all questions**	**(14)**
	a.	What is JDBC? Explain the JDBC Drivers types with suitable figure.	5
	b.	Explain Prepared Statement and CallableStatement with examples.	5
	c.	What is a Servlet? Explain Servlet life cycle with suitable figure.	4
Q-5		**Attempt all questions**	**(14)**
	a.	What is GenericServlet class? Explain GenericServlet Class Methods.	7
	b.	What is HttpServlet class? Explain Http Servlet class Methods.	7
Q-6		**Attempt all questions**	**(14)**
	a.	What is Session Tracking? Explain any one Session Tracking technique.	5
	b.	Explain different Attribute in Servlets.	5
	c.	What is RequestDispatcher Interface? Explain RequestDispatcher Interface method.	4
Q-7		**Attempt all questions**	**(14)**
	a.	Explain the phases of JSP life cycle.	5
	b.	List and explain any 4 JSP Implicit Objects with their methods.	5
	c.	Explain Advantage of JSP over Servlet.	4
Q-8		**Attempt all questions**	**(14)**
	a.	List and explain scripting elements used in JSP page.	5
	b.	Explain any five implicit Objects in JSP.	5
	c.	Explain Exception Handling in JSP.	4