M.C.A. Semester – 4 Examination Nov 2017

Paper Code: 3613

Paper Title: Advanced Java

ume	e: Z:	30 Hours Ma	arks: 70
Q1		Answer any FIVE from the following:	[10]
	a.	What is Swing? Write import directive for swing-based programming.	
	b.	Give your comment on the statement: "All containers are component, but all components are not container."	
(C.	What is purpose of addItem() and getSelectedItem() in JComboBox?	
1	d.	Which parameters are passed in service() method of GenericServlet?	
•	e.	What is purpose of init() and destroy() methods in the servlet?	
1	f.	What do you understand by the term ResultSet in JDBC programming?	
{	g.	Which methods are used to send and receive a packet in UDP based programming?	
Q2		Answer any FIVE from the following:	[15]
ä	а.	What is difference between (i) JFrame and JApplet ? (ii) Applet and JApplet ?	
b	b.	What do you mean by "Listener"? How a listener is associated with component?	
C	С.	Write only init() method of JApplet to scroll an image using JScrollPane.	
C	d.	State the meanings of "JDBC driver" and "JDBC-ODBC bridge".	
е	2.	How a Service() method of Servlet is called?	
f.	:	Write a code segment (not a complete program) to receive a datagram packet, extract a string in variable user_name from it, and send acknowledgement message "Hello, "+user_name to the port from where the packet was received.	
g	<u>.</u>	Write code to implement remote class using the remote interface, and bind it to RMI registry.	
Q3		Answer any FIVE from the following:	[25]
a		State the meaning of Component, light-weight Container, and heavy-weight Container. Give one example of each.	
b).	Explain event handling in JButton.	
C.		Explain constructor, events, and methods of JList class.	
d		Discuss the steps of execution of Servlet.	

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e. Explain the following code:

```
PrintWriter objPW = objResponse.getWriter();
    try {
    Enumeration e=objRequest.getParameterNames();
    while(e.hasMoreElements())
    {
        String pname=(String)e.nextElement();
        objPW.print(pname + "=");
        String pvalue=objRequest.getParameter(pname);
        objPW.println(pvalue+"</br>
}
finally {
    objPW.close();
}
```

- f. Write a code to delete a row in table "mySong" of database "myDatabase". Before deleting the row, insert that row in table "myHistory". Assume the following fields in both the tables: song_no,song_words, movie_name, male_singer, female_singer.
- g. Write a TCP based program "myServer.java" that receives one string from "clientA", prints it, and sends it to "clientB". You have to write only one program on server-side.

Q4 Answer any TWO from the following:

[20]

- a. Discuss the following swing components: JLabel, JTextField, and JCheckBox. Also write one program illustrating use of JLabel, JTextBox, as well as JCheckBox.
- b. Explain with coding:
 - Inserting raw in database table using PreparedStatement.
 - Display selected rows based on "select ... where ..." using Statement.
 - Update only one row in the table using PreparedStatement.

Note:

- Write necessary portion of code, no need to write complete program
- Assume any suitable table of your choice.
- Compare UDP based socket programming and TCP based socket programming. Explain the use of following classes: DatagramSocket, DatagramPacket, ServerSocket, Socket