

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name: Advanced Java Technology

Subject Code: 4TE06AJT1

Branch: B.Tech(CE,IT)

Semester : 6

Date : 09 /05 /2016

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) Explain JRadioButton
- b) Swing is not a part of JFC (Java Foundation Classes) that is used to create GUI application?
 - A. True
 - B. False
- c) What event is generated when a user makes a menu selection?
 - A. actionPerformed
 - B. ActionListener
 - C. ActionEvent
 - D. ActionListener
- d) What method is used to handle item events from menus, checkboxes, and radio buttons?
 - A. itemStateChanged()
 - B. addActionListener()
 - C. getItemEvent()
 - D. getActionEvent()
- e) Which type of Statement can execute parameterized queries?
 - A. PreparedStatement
 - B. ParameterizedStatement
 - C. ParameterizedStatement and CallableStatement
 - D. All kinds of Statements
- f) How can you execute a stored procedure in the database?
 - A. Call method execute() on a CallableStatement object
 - B. Call method executeProcedure() on a Statement object
 - C. Call method execute() on a StoredProcedure object
 - D. Call method run() on a ProcedureCommand object



- g) The life cycle of a servlet is managed by
 - A. servlet context
 - B. servlet container
 - C. the supporting protocol (such as http or https)
 - D. all of the above
- h) Which of the following code retrieves the MIME type of the body of the request?
 - A. new MimeTypes()
 - B. request.getContentType()
 - C. response.getContentType()
 - D. None of the above
- i) Which of the following is true about init() method of servlet?
 - A. The init() method simply creates or loads some data that will be used throughout the life of the servlet
 - B. The init() method is not called again and again for each user request
 - C. Both of the above
 - D. None of the above
- j) Define Stub in RMI.
- k) What do you mean by Marshalling in RMI?
- l) Explain Look and Feel in Swing.
- m) Define role of taglib directive.
- n) What is JSTL?

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

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| Q-2 | Attempt all questions | (14) |
| | a) Differentiate between AWT and Swing. | (4) |
| | b) Explain Delegation Event model for event Handling | (4) |
| | c) Write a Swing program for Login. | (6) |
| Q-3 | Attempt all questions | (14) |
| | a) What do you mean by JDBC Driver? Explain types of JDBC Statement. | (7) |
| | b) Write a servlet/ JSP program to insert student information in database. | (7) |
| Q-4 | Attempt all questions | (14) |
| | a) Difference between JSP and Servlet. | (4) |
| | b) Explain Session and Cookie in servlet. | (6) |
| | c) Write differences between include directive and include action in servlet. | (4) |
| Q-5 | Attempt all questions | (14) |
| | a) Write a note on servlet filter. | (7) |
| | c) Briefly explain the life cycle phases of JSP. | (7) |
| Q-6 | Attempt all questions | (14) |
| | a) Write and explain steps of distributed RMI application. | (7) |
| | b) Write RMI Client and Server for Addition of two numbers. | (7) |



- Q-7** **Attempt all questions** **(14)**
- a) What is Hibernate? Explain key features of Hibernate and O/R Mapping of Hibernate. **(7)**
- b) Write a java client program that can send a String to a server program, and a server program that accepts that String and returns to client program a capitalized String using TCP. **(7)**
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- Q-8** **Attempt all questions** **(14)**
- a) Write a note on: Core tag library available in JSTL **(8)**
- b) Explain n- tier J2EE Architecture. **(6)**

