**M S Ramaiah Institute of Technology**

**Department of Information Science and Engineering**

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| **Term:** | 23/01/2017 to 13/05/2017 | **Course Code:** | IS624 |
| **Course:** | Java and J2EE | **Semester:** | 6 |
| **CIE:** | Test-II | **Max Marks:** | 30 |
| **Date:** | 04/4/2017 | **Time:** | 9:30 am -10:30am |

**Portions for Test:** Lecture Nos. from 17 to 34 as per lesson plan

**Instructions to Candidates:** Answer any **Two** out of Three questions. **Mobile phones are banned**

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| **Sl No** | **Questions** | **Marks** | **BL** | **CO** |
| 1a. | Create a JFrame that shows Registration Confirmation in a message box on filling the details of admission form for a course. The information entered should be credits registered in JTextField, semester in JComboBox, and section in JRadioButton. JOptionPane displays the message on ActionListener of JButton. | (6) | A | 3 |
| 1b. | Create a Hash map of Employee number (111,222,333,444,555) and their salary (double data type). Write a java program to display all the details and give 15% incentive from their salary with the employee number 222, 444. | (6) | A | 2 |
| 1c. | List any 3 advantages of JDBC. | (3) | U | 4 |
| 2a. | Write a swing program to enter two numbers. Also include labels, radio buttons to indicate add, multiply, subtract, and divide. On clicking on the submit button identify the radio button selected and display the result operation on the two numbers in another text box. | (6) | A | 3 |
| 2b. | With a neat diagram show the interaction of JDBC with databases. | (5) | U | 4 |
| 2c. | Discuss any 4 methods of the Map interface. | (4) | R | 2 |
| 3a. | Write a swing application to extend JPanel and create a Login Form. Write an event handler to accept username and password and validate against a list of username and password stored in any Collection class. Display success / failure message in a Dialog Box. | (6) | A | 3 |
| 3b | Compare servlets and CGI. | (4) | U | 4 |
| 3c. | Write a java program to create an array of Strings. Add elements to this string. Use the methods of the Array class to   1. Sort the elements from 3rd to 7th position of the array. 2. Search for an element in this array 3. Fill a range of values with the string “HELLO”.   Write an appropriate display method to display the contents of the array. | (5) | A | 2 |

**BL: Blooms Level A: Apply, U: Understand, R: Remember**