**M S Ramaiah Institute of Technology**

**Department of Information Science and Engineering**

|  |  |  |  |
| --- | --- | --- | --- |
| **Term:** | 22/01/2018 to 12/05/2018 | **Course Code:** | IS624 |
| **Course:** | Java and J2EE | **Semester:** | 6 |
| **CIE:** | Test-I | **Max Marks:** | 30 |
| **Date:** | 27/02/2018 | **Time:** | 2-3 PM |

**Portions for Test:** Lecture Nos. from 1 to 16 as per lesson plan

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q.No | Questions | Marks | Bloom’s Level | **CO** |
| 1a. | What are uses of collections? List any 6 methods used for different collection interfaces. | 7 | Create | 2 |
| 1b. | Explain the following keywords with an example code for each:   1. Super 2. This 3. Final 4. Try catch | 8 | Understand | 1 |
|  |  |  |  |  |
| 2a. | List and explain any 5 methods in ArrayList Class along with its constructors. Also write java code to create object of ArrayList of type integer demonstrate insert and delete methods. | 7 | Apply | 2 |
| 2b. | Explain Autoboxing and unboxing. Also write a program to find sum of Integer numbers using autoboxing and unboxing method | 8 | Apply | 1 |
|  |  |  |  |  |
| 3a. | Write a java program to create a LinkedList accepting array of Strings. Create a method to identify number of vowels and consonants in each string and display their count. Also write a method to identify duplicate elements in the List. | 8 | Create | 2 |
| 3b. | Write a java snippet to check a product weight and throw a user-defined exception if the product weight is greater than 60 kgs. | 7 | Apply | 1 |