

Code: IT4T1

II B.Tech - II Semester – Regular Examinations - JUNE 2014

**JAVA
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1. a) Explain ByteCode and its significance in making JAVA popular? 7 M
- b) Write a program to calculate the roots of quadratic equation? 7 M
2. a) Write an example program to explain how objects can be passed as parameter to methods ? 7 M
- b) Explain access specifiers in JAVA? 7 M
3. a) Explain about final classes, final methods and final variables in JAVA? 7 M
- b) Explain the use of 'super' keyword in Inheritance with an example program? 7 M

4. a) Explain how interfaces can be extended in JAVA with an example program ? 7 M
- b) What happens when an Interface is partially implemented in JAVA? 7 M
5. Explain the following:
- a) `isAlive()` 4 M
 - b) `ArrayIndexOutOfBoundsException()` 4 M
 - c) `IllegalArgumentException()` 3 M
 - d) `finally()` 3 M
6. Write a program to demonstrate the methods supported by `KeyListener` interface? 14 M
7. Explain the steps involved in creating `JRadioButton`, `JList`, `JCheckbox` and `JTree`? 14 M
8. Write short note on the following:
- a) `Datagram` 7 M
 - b) `Sockets` 7 M