M.Tech(CSE) 2nd Semester Examination
June 2014
Advanced JAVA
Subject Code: CSL-506

Time Allowed: 03 hours. Maximum Marks: 100

Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.

Note: First question is compulsory. Attempt two questions from each section A and B.

1. (a) Explain collections. (4*5=20)
   (b) Explain database metadata with example.
   (c) Explain JSP implicit objects.
   (d) What is JNDI? Explain.
   (e) What is an interface? Differentiate between abstract class and final class.

SECTION-A

2. (a) What is multithreading? Explain life cycle of a thread. Write a program to implement multithreading. (14)
   (b) Explain multiple inheritance in java. (6)

3. Explain different types of JDBC drivers. What are the basic steps to create a JDBC application? Write a program to create a simple JDBC application. (20)

4. (a) Explain servlet life cycle in detail. (10)
   (b) What are the different methods of session management? Explain with an example. (10)

SECTION-B

5. (a) Explain JSP architecture in detail. (10)

(b) Use JSP to write the following program: Create a web page having 2 text fields labeled as “username and password” and a button labeled as “Submit”. On clicking of submit button username and password should be checked in the database and if values exits in database then next webpage should be displayed. On the next page username should be displayed. (10)

6. (a) Explain RMI architecture in detail. Write a program using RMI. (14)
   (b) Explain different types of Enterprise java beans. (6)

7. Write a short note on the following: (7+7+6)
   a. Spring Framework
   b. Web Services
   c. JPA