M.Tech (CSE) 2nd Semester Examination
June – July 2013
Subject – 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: Attempt any five questions and all questions carry equal marks.

Section-A

Q1. i) What is a thread? Describe the complete life cycle of a thread? [10]
   
   ii) What is an applet? How do applets differ from application programs? Discuss the steps involved in developing and running a local applet. [10]

Q2. i) What do you mean by Wrapper Class? What advantages do these classes offer? [10]
   
   ii) What are the advantages of Servlet over CGI? Explain the difference between GET and POST methods? [10]

Q3. i) What are advantages of Swing over AWT? Describe the features of Swing. What is PL &F in Swing? [10]
   
   ii) Explain the different steps that are to be followed to establish a connection from a Java program to database. [10]

Section-B

Q4. i) What is JSP? What are the methods of JSP life cycle? Explain the advantages of JSP with respect of Servlet and ASP. [10]
   
   ii) Explain the different types of JSP tags. Write a program using JSP that register for the new e-mail account. [10]

Q5. i) Explain the Life Cycles of Enterprise Bean(EJB)? What are the advantages of enterprise bean? [10]
   
   ii) What is an Entity Bean and its types? What makes entity bean different from Session bean. [10]

Q6. Write short on the followings: [5x 4 =20]
   
   a) Statefull vs. Stateless Session Bean.
   b) Message Driven Bean.
   c) Features of String.
   d) Features of Hibernate.