

B.Tech. 7th Semester Information Technology–VI
Examination, December–2013

ADVANCED JAVA

Paper–CSE–409-F

Time allowed : 3 hours] [Maximum marks : 100

Note : There are Nine questions in the paper. Question No. 1 is compulsory which consists of 10 short-answer type questions, each of 2 marks covering the entire syllabus. In addition to Q. No. 1, students are to attempt four more questions selecting one from each section.

1. (a) What are I/O streams ? 10×2=20
(b) What are user defined exceptions in Java ?
(c) What are the differences between swing and AWT ?
(d) What are digital signatures ?
(e) What is JDBC ?
(f) What is Remote Method Invocation ?
(g) What is naming pattern for Java bean ?
(h) What are class loaders ?
(i) What is SOAP ?
(j) What is Java IDL ?

Section-A

2. (a) What is an Applet ? Write a programme and discuss the creation and execution of it. 10
- (b) What is an exception ? Describe exception handling mechanism with example. 10
3. (a) What is a socket ? Describe different types of sockets. What are the applications of socket programming ? 10
- (b) What is Multithreading ? Can we restart stopped thread in Java ? Explain Synchronization and inter-thread communication with example. 10

Section-B

4. (a) What is the life cycle of a servlet ? Write a programme and explain the procedure of compilation. 15
- (b) Explain installation of LDAP. 5
5. (a) What are the differences between RMI and CORBA ? Create an application using RMI. 10
- (b) What is JDBC ? Write the basic steps required to connect and process the data from a database using JDBC. 10

Section-C

6. What do you mean by swing ? List the features provided by Swing for developing GUI application. Explain various components of swing with examples. 20
7. Illustrate the following with example :
- (a) Rendering Pipeline
 - (b) Clipping
 - (c) Image manipulation. 7+7+6

Section-D

8. Write short notes on the following :
- (a) Bytecode verification
 - (b) Using beans to build application. 7+7+6
9. Explain the following :
- (a) Encryption
 - (b) Types of Java beans
 - (c) Java beans properties. 7+7+6