E 8236

M.C.A. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Fifth Semester

CA 331 — ADVANCED JAVA PROGRAMMING

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What do you mean by filtering?

2. Differentiate conventional stack from stack class.

3. Write the use of Object Serialization.

4. Why RPC is used with Java?

5. Can an application be run directly from a JAR file? If yes, how?

6. Write about J Component class.

7. Define GET and POST requests.

8. List down the methods present in Servlet interface.

9. State the use of Internationalization.

10. Explain Image Class.

PART B — (5 × 16 = 80 marks)

11. (i) Explain the Architecture of EJB (with a neat sketch) and the services offered by EJB container. (10)

(ii) Describe the Java media works functions. (6)

12. (a) (i) Describe event handling model using interface(s) and adapter class(es). (8)

(ii) Explain the following :

(1) LIST and COMPARATOR interfaces (2 + 2)

(2) Abstract Collection and TreeSet classes. (2 + 2)

Or

(b) (i) Discuss the sockets provided in Java. Explain with examples. (10)

(ii) How is synchronization achieved under multiple threads of control? (6)

13. (a) Write the concepts and architecture of CORBA. (16)

Or

(b) (i) Explain the use of RMI with an application. (6)

(ii) Explain the JINI concepts to support spontaneously created, self healing communities of services. (10)

14. (a) Give a detailed overview of Java Beans. Illustrate with an example. (16)

Or

(b) (i) Write the features of Java Swing. (8)

(ii) Create a Swing application of login process. (8)

15. (a) Explain deployment of an application on n-tier. Illustrate with an example. (16)

Or

(b) Design a web portal for buying and selling books using J2EE architecture. Also explain the various design issues of web portal. (16)
