

Exam Code: 0920

Sub. Code: 6238

1058

B.E. (Computer Science and Engineering)
Eighth Semester
Elective – II
CSE-815: Java Technology

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) What is Java virtual machine?
- b) What is inheritance? Give one example of method overriding.
- c) What is a program thread? Give example.
- d) What JDBC? Discuss its need and significance.
- e) Explain: EJB, Java Server Pages.

(5x2)

UNIT – I

- II. a) What is a constructor? Write a program in Java to illustrate the concept of classes, methods and constructors.
- b) What is an applet? Discuss the initialization, execution and termination of an applet class. (5,5)
- III. a) How is event-driven programming different from procedure oriented programming? Illustrate with suitable example the event-handling procedure for keyboard.
- b) Explain: panel, canvas, frames? Write a program to create a window frame and illustrate its application using suitable example. (5,5)
- IV. a) What is exception handling? Illustrate with example, the try and catch statements used for creating and throwing exceptions.
- b) Give an example of a multi-threaded application? Discuss the thread synchronization in detail. (5,5)

UNIT – II

- V. a) Write the key steps involved in connecting a Java application to a database. Can we connect the program with different kinds of databases? If yes, then justify your answer?
- b) Explain the component based architecture of J2EE. (5,5)

P.T.O.

(2)

- VI. What are Java Servlets? Write a program to illustrate the same. Discuss its deployment and testing. (10)
- VII. Differentiate between Session bean and Entity bean? Also explain with example the stateless session and statefull session bean? (10)

x-x-x