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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Sixth Semester, B.E. – Computer Science and Engineering

Semester End Examination; June - 2017

Java and J2EE

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Explain the following: 10
 - (i) Java Bytecode
 - (ii) Java Buzzword.
- b. Define type wrappers. Explain the different types of type wrappers. 5
- c. Define exception. Explain exception handling mechanism in Java. 5
- 2 a. Distinguish between java and C++. 6
- b. Define package. With a sample code, explain the concept of package. 10
- c. Explain the concept of auto boxing in Java. 4

UNIT - II

- 3 a. With an example program, explain java thread model. 10
- b. What are generics? Explain generic with a java program. 10
- 4 a. Write a Java program to demonstrate multiple threads (at least three child threads). 8
- b. Write a java program that implements client-server communication by writing message typed at server across the software to the client side where they are displayed. 8
- c. What are generic interfaces? 4

UNIT - III

- 5 a. Explain in detail how to access a collection using an iterator? 10
- b. Define applet. Write a Java applet program that creates thread that scrolls message from right to left across applet's window. 10
- 6 a. Write a Java program for handling keyboard events. 10
- b. Write a note on HTML Applet tag. 6
- c. Explain in brief Inner classes. 4

UNIT - IV

- 7 a. Describe the working of JDBC. List and explain the different types of JDBC drivers. 10
- b. Define Servlet. Explain the life cycle of Servlet. 10
- 8 a. Explain what is session tracking with an example program? 10
- b. With a sample program, explain Resultset concept. 10

UNIT - V

- 9 a. Define JSP. List and explain the Various tags used in JSP. 10
- b. What is EJB? Explain in brief Entity Java Bean. 10
- 10 a. Explain in detail java RMI. 10
- b. Explain in detail deployment descriptor of EJB. 10

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