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

(An Autonomous Institution affiliated to VTU, Belagavi)

Fourth Semester, Master of Computer Applications (MCA)

Semester End Examination; May / June - 2019

Advanced Java Programming

Time: 3 hrs

Max. Marks: 100

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

UNIT - I

- 1 a. Discuss the need of Servlet and Servlet life cycle methods. 10
- b. Write the general structure of a Java Servlet. 4
- c. Write a servlet program using the doGet() and doPost() method. 6
- 2 a. Describe session tracking using Servlet program. 10
- b. List the three methods or properties of read HTTP header in servlet program. 6
- c. Discuss any three methods of Cookies. 4

UNIT - II

- 3 a. Write reasons of using JSP pages. Explain the advantages of JSP. 5
- b. Discuss the JSP page directive five attributes. 5
- c. Explain include directives and give example. 10
- 4 a. Discuss, with syntax of five JSP action elements. 10
- b. Describe the uses of Java Bean component in JSP document. 10

UNIT - III

- 5 a. Explain the different types of JDBC drivers. 6
- b. Describe JDBC process with code snippets. 10
- c. Write short note on ResultSet Object. 4
- 6 a. Why the need of annotations? Explain the built-in annotation with example. 10
- b. Illustrate with code snippets Bean methods and Bean properties. 10

UNIT - IV

- 7 a. Describe the specifications provided in EJB container services. 10
- b. Explain EJB server side component types. 10
- 8 a. Illustrate with example EJB deployment descriptor. 10
- b. Explain the Message driven Beans. 10

UNIT - V

- 9 a. Discuss EJB Session Bean. 10
- b. Explain with diagram, JMS architecture. 10
- 10 a. Describe the three relationships exist between Entity Bean. 10
- b. Discuss different messaging models of JMS. 10