Seventh Semester B.E. D

Seventh Semester B.E. Degree Examination, June/July 2019

Java and J2EE

Time 3 hrs.

RANGALORE

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

| | | PART – A | |
|---|---------|--|--------------------------|
| 1 | a. | Explain three kinds of variables in Java. | (06 Marks) |
| 1 | b. | What are arrays? List out the three steps to create an array. | (04 Marks) |
| | c. | Describe the process of building and running Java program with an example. | (04 Marks) |
| | d. | Discuss different access specifiers in Java. | (06 Marks) |
| 2 | a. | Define an Applet. Explain the skeleton of an applet with example program. | (08 Marks) |
| - | b. | Explain the types of exceptions in Java. | (06 Marks) |
| | c. | What is difference between a superclass and subclass? Write a program to dem | onstrate the |
| | | same. | (06 Marks) |
| 3 | a. | What are threads? Explain how to make the class threadable. | (07 Marks) |
| 3 | b. | What is synchronization? Explain producer consumer problem with a program. | (09 Marks) |
| | c. | Write short notes on sources of events. | (04 Marks) |
| 4 | a. | What are swing components? Explain atleast 4 swing components. | (06 Marks) |
| | b. | What are containers? Explain a simple container. | (06 Marks) |
| | c. | Write a short note on: | |
| | | i) JTabbedPane | |
| | | ii) JScrollPane | |
| | | iii) JList | (00 7/1 1) |
| | | iv) JComboBox. | (08 Marks) |
| | | PART – B | |
| | | | (12 Manulas) |
| 5 | a. | Explain JDBC process in detail. | (12 Marks) |
| | b. | Write a short notes on: | |
| | | i) J2EE | |
| | | ii) J2SE | |
| | | iii) ResultSet | (08 Marks) |
| | A | iv) ResultSetMetaData. | |
| 6 | a. | Explain the difference between the applet and servlet. | (04 Marks) |
| · | b. | With a diagram, explain servlet life cycle. | (08 Marks) |
| | c. | With a program, explain handling HTTP requests and responses. | (08 Marks) |
| 7 | a. | Why we use JSP? Explain JSP tags. | (08 Marks) |
| , | b. | Explain Apache Tomcat with example program. | (06 Marks) |
| | c. | Write a short notes on | |
| | (T. S. | TOP | |
| | | i) Session and cookies in JSP ii) RMI. CMRIT LIBRARY BANGALORE - 560 037 | (06 Marks) |
| | | RANGADORE | (07 M1) |
| 8 | a. | What is EJB? Explain three types of EJB that are suited to different purposes. | (07 Marks) |
| | b. | Explain session beans with an example program. | (05 Marks) (08 Marks) |
| | c. | What are JAR file? Explain the benefits of JAR file format. | (00 Marks) |

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