10CS/IS753

Seventh Semester B.E. Degree Examination, Aug./Sept. 2020
Java and J2EE

Time: 3 hrs.

Max. Marks:100

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

PART – A

1   a. Briefly explain any six buzzwords used for designing Java program. **(05 Marks)**
    b. With an example, explain the working of >> and >>> operators. **(05 Marks)**
    c. Explain the process of building and running a java application program. **(05 Marks)**
    d. Write a program to calculate the average among the elements {1, 5, 7, 9} using for each version of for statement in Java. **(05 Marks)**

2   a. Explain the concept of method overriding with an example. **(07 Marks)**
    b. What is command – line arguments? Write a program to demonstration command line arguments. **(07 Marks)**
    c. What are the two types of applets? Explain the skeleton of on applet. **(06 Marks)**

3   a. What are the two methods of creating a new thread. Write a program to create a new thread using any method to display 'VTU Belgaum' and display it for 1 second. **(08 Marks)**
    b. What do you mean by thread synchronization? Explain with syntax. **(08 Marks)**
    c. Explain the adaptor classes with example. **(04 Marks)**

4   a. Name the different types of swing buttons. Give their syntax of corresponding constructors. **(06 Marks)**
    b. Explain the various constituents of swing package. **(06 Marks)**
    c. How AWT is different from swing? What are two key features of swing and explain. **(08 Marks)**

PART – B

5   a. Explain J2EE multitier architecture. **(08 Marks)**
    b. With proper syntax, explain three types of getConnection method. **(08 Marks)**
    c. Write a note on result set. **(04 Marks)**

6   a. What is servelet? Explain life cycle of servelte. **(07 Marks)**
    b. What is a cookie? List the various methods defined by cookie. **(07 Marks)**
    c. Describe in detail, how tomcat web server is configured for development of servlet. **(06 Marks)**

7   a. What is the difference between sevlets and JSP? Explain different types of JSP tags with syntax. **(06 Marks)**
    b. Briefly explain the working of JAVA RMI programs with appropriate steps. **(08 Marks)**
    c. What are the differences between server side and client side JAVA RMI? **(06 Marks)**

8   a. Explain various EJB transaction attributes. **(07 Marks)**
    b. With a skeleton explain session java bean. **(07 Marks)**
    c. Write a note on JAR file. **(06 Marks)**

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