Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024
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. List atleast 4 features of Java. Explain three kinds of variables in Java. (06 Marks)
   b. Describe the process of building and running Java program. (04 Marks)
   c. Explain built in data types in Java. (06 Marks)
   d. What are literals? Explain literal types in Java. (04 Marks)

2 a. Explain super class with an example program. (04 Marks)
   b. What is an exception? Explain different exception handling mechanism or types of exceptions. (04 Marks)
   c. Define the following :
      i)   CODEBASE
      ii) CODE
      iii) ALIGN
      iv) VSPACE and HSPACE
      v)   PARAMNAME and VALUE. (05 Marks)
   d. Explain Applet class methods. (07 Marks)

3 a. Explain different ways of making classes threadable with explain program. (10 Marks)
   b. What is an event? List the sources of events. (05 Marks)
   c. What is an adaptor class? Explain event listener interfaces. (05 Marks)

4 a. Explain swing components and container. (10 Marks)
   b. Explain the following :
      i)   JTabbed pane
      ii) JSrollpane
      iii) JComboBox. (10 Marks)

PART – B

5 a. What is J2EE? Explain JDBC process. (06 Marks)
   b. Why statement object is used? Explain three kinds of statements. (04 Marks)
   c. What is ResultSet? Explain three methods of statement class. (06 Marks)
   d. With a note on Transaction processing. (04 Marks)

6 a. What are servlets? List out typical uses for HTTP servelts. (04 Marks)
   b. Explain life cycle of a servlet. (06 Marks)
   c. What are the steps in building and testing a simple servlet? (03 Marks)
   d. What are cookies? Explain handling HTTP request and responses with example. (07 Marks)

7   a.   What is JSP? Explain the following JSP tag :
           i)   Scriptlet
           ii)   Directive
           iii)   Declaration
           iv)   Expression.   **(06 Marks)**

     b.   What is Tomcat? Give an example.   **(04 Marks)**

     c.   Explain RMI and Remote Interface.   **(05 Marks)**

     d.   Explain in client side and server side in RMI.   **(05 Marks)**

8   a.   What is Enterprise Java Bean (EJB)? Explain three types of EJB.   **(07 Marks)**

     b.   What is Deployment Descriptors? Explain session Bean.   **(05 Marks)**

     c.   What is ENTITY JAVA BEAN? Explain the benefits of JAR file format.   **(08 Marks)**

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