17CS553

USN

Fifth Semester B.E. Degree Examination, June/July 2023
Advanced Java and J2EE

Time: 3 hrs.   Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. What are Enumeration? Explain values( ) and valueof( ) method with an example. **(07 Marks)**
   b. Explain various types of wrappers used in Java. **(08 Marks)**
   c. Explain how to obtain annotation at run time by use of reflection. **(05 Marks)**

OR

2 a. Explain the following methods of Java.lang.Enum with an example program.
      i) ordinal   ii) CompareTo( )   iii) equals( ) **(06 Marks)**
   b. What are annotation? Explain the following built-in annotation with program as an example, @override, @inherited and @Retention. **(08 Marks)**
   c. Explain numeric type wrapper with an example program in Java. **(06 Marks)**

Module-2

3 a. What is collection framework? Explain the methods defined by collection framework interface. **(08 Marks)**
   b. Explain the constructor of TreeSet class and write java program to create TreeSet collection. **(07 Marks)**
   c. Explain the arraylist class of collection classes. **(05 Marks)**

OR

4 a. Explain the methods defined by ArryDeque class. **(08 Marks)**
   b. Explain the constructors of Hashset class with an explain program. **(08 Marks)**
   c. Differentiate between ArrayList and LinkedList. **(04 Marks)**

Module-3

5 a. Explain the following string comparison methods with examples :
      i)   equals( )
      ii) regionmatches( )
      iii) startsWith( )
      iv) endsWith( ). **(08 Marks)**
   b. Explain the various string constructor used in Java with examples. **(08 Marks)**
   c. Explain any two string Buffer methods with an example. **(04 Marks)**

OR

6 a. Differentiate between equals( ) & = = with respect to string with a program. **(06 Marks)**
   b. Write a program to remove duplicate character from a given string and display the resultant string. **(08 Marks)**
   c. Explain following character extraction method :
      i) CharAt( )   ii) to CharArray( ). **(06 Marks)**

Module-4

7 a. What is the role of Toncal server? Explain different steps involved in configuring for development of servlet program execution. **(10 Marks)**

    b. Write a Java Servlet program to accept two parameter from web page, find the sum of them display the result in web.page. Also give necessary html strips to create webpage. **(10 Marks)**

OR

8 a. Explain different JSP tags with a program. **(08 Marks)**

    b. Explain the life cycle of servlets. **(04 Marks)**

    c. What is cookie? Write a JSP program to create and read a cookie. **(08 Marks)**

Module-5

9 a. Explain the various steps of JDBC with code snippets. **(08 Marks)**

    b. Explain the four types of JDBC drives. **(06 Marks)**

    c. Explain Callable statement object with example. **(06 Marks)**

OR

10 a. Write a java program to execute a database transaction. **(10 Marks)**

     b. Describe the following concepts with code snippets :
       i)   Scrollable result set
       ii) Updatable result set
       iii) Prepared statement object
       iv) Tomcat. **(10 Marks)**

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