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17CS553

Fifth Semester B.E. Degree Examination, July/August 2022
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 Enumerations? Explain Value( ) and Value of ( ) methods with an example program. **(08 Marks)**
    b. Explain how to obtain Annotation at RunTime by use Reflection. **(08 Marks)**
    c. What is Auto – Boxing? Write a program to demonstrate Auto – Boxing/UnBoxing. **(04 Marks)**

OR

2   a. Explain Enumeration class and processing of Single member annotation with example. **(08 Marks)**
    b. Define Wrapper class and its purpose. Explain with example. **(08 Marks)**
    c. What are Ordinal ( ), CompareTo ( ) and Equal ( )? **(04 Marks)**

Module-2

3   a. What is Collection Framework? Explain the methods defined by collection interface. **(10 Marks)**
    b. Explain the following Map Class i) Hash Map   ii) Tree Map. **(10 Marks)**

OR

4   a. Explain the Four Legacy classes of Java's collection Framework. **(10 Marks)**
    b. Explain the method defined by list Interator Interface. **(10 Marks)**

Module-3

5   a. What is String in Java? Write a java program that demonstrates any four constructors of string class. **(10 Marks)**
    b. Explain how to modify a string by using following methods. **(10 Marks)**
       i) Substring ( )   ii) Replace ( )   iii) Concat ( )   iv) Trim ( ).

OR

6   a. Explain different methods of string Buffer class. **(10 Marks)**
    b. Write a program to remove duplicate characters from a given string and display the resultant string. **(07 Marks)**
    c. Differentiate between string and string Buffer class. **(03 Marks)**

Module-4

7   a. Explain the life cycle of servlets. **(08 Marks)**
    b. What is Cookie? List out methods defined by Cookie. Write a java program to add a cookie. **(08 Marks)**
    c. Differentiate between JSP Declaration Tag and JSP scriplet Tag. **(04 Marks)**

OR

8 a. Define JSP. Explain different types of JSP tags by taking suitable examples. **(10 Marks)**
   b. Explain the reading of servlet parameters with suitable program. **(10 Marks)**

Module-5

9 a. Explain the various steps of JDBC with code snippets. **(10 Marks)**
   b. List and explain various statements objects in JDBC. **(10 Marks)**

OR

10 a. Explain the FOUR types of JDBC drivers. **(10 Marks)**
    b. List and explain the three kinds of exceptions occurred in JDBC. **(10 Marks)**

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