CBCS SCHEME

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21CS642

Sixth Semester B.E. Degree Examination, June/July 2024
Advanced Java Programming

Time: 3 hrs. Max. Marks: 100

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

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. What are enumerations? Explain compareTo( ), equals( ) and values( ) method with example. **(10 Marks)**

b. Explain how to obtain Annotation at Run Time by using Reflection. **(10 Marks)**

OR

2 a. Explain the following with examples: (i) wrappers (ii) autoboxing (iii) unboxing **(10 Marks)**

b. Define annotations. Explain the following built in annotations: (i) override (ii) inherited **(10 Marks)**

Module-2

3 a. Define Generics. Explain the generic class with two type parameters. **(10 Marks)**

b. Write a program to illustrate bounded wildcards with respect to generics. **(10 Marks)**

OR

4 a. Elaborate how raw type is created in generic class and list its disadvantages. **(10 Marks)**

b. Describe the ambiguity of errors in generic class. **(10 Marks)**

Module-3

5 a. Define string. Write a program to demonstrate the use of constructors in string. **(10 Marks)**

b. Explain how to modify a string by using following methods:
(i) Substring( ) (ii) Replace( ) (iii) Trim( ) **(10 Marks)**

OR

6 a. Illustrate any four character extraction method with examples. **(10 Marks)**

b. What is StringBuffer? Explain any five StringBufffer methods with example. **(10 Marks)**

Module-4

7 a. Define cookie. List out methods defined by cookie. Write a Java program to add a cookie. **(10 Marks)**

b. Write a Servlet program that read parameter names and values of print. **(10 Marks)**

OR

8 a. Define JSP. Explain different types of JSP tags with suitable examples. **(10 Marks)**

b. Develop a Servlet program that illustrate how to use cookies. **(10 Marks)**

Module-5

9 a. List and explain JDBC Drivers types. **(10 Marks)**

b. List and explain the various statements objects in JDBC. **(10 Marks)**

OR

10 a. Explain the three kinds of exceptions occurred in JDBC. **(10 Marks)**

b. Explain transcation processing in JDBC. Write a program to execute a Database transcation. **(10 Marks)**

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