# CBCS SCHEME

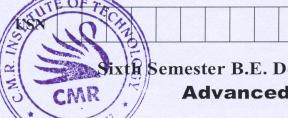## Sixth Semester B.E. Degree Examination, June/July 2024
## Advanced Java Programming

Time: 3 hrs.                                                              Max. Marks: 100

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

### 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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