

# 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.*

### 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 StringBuffer 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 transaction processing in JDBC. Write a program to execute a Database transaction. (10 Marks)

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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.