



## Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Advanced Java and J2EE

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. Define with example for each of the following : (08 Marks)  
i) Autoboxing/unboxing ii) Type wrapper.
- b. List and explain exceptions and methods of annotations with example. (08 Marks)

OR

- 2 a. Define Enum. Write a program to display the enumeration constants using values( ) and valueOf ( ) method. (08 Marks)
- b. How Annotations are obtained at runtime by use of reflection. (08 Marks)

### Module-2

- 3 a. Explain exception and methods that are provided in collection interface. (08 Marks)
- b. List the recent changes made to collection in collection frameworks and explain. (08 Marks)

OR

- 4 a. Write a program to demonstrate the list interface using ArrayList class. (08 Marks)
- b. What are the exceptions and methods ins Map interface? (08 Marks)

### Module-3

- 5 a. Explain the different types of string constructors with example. (08 Marks)
- b. What are the methods to modify a string with example? Explain each. (08 Marks)

OR

- 6 a. Explain String Buffer in detail. (08 Marks)
- b. Define String Handling. Explain special string operations with example. (08 Marks)

### Module-4

- 7 a. Explain the life cycle of Servlets. (08 Marks)
- b. List and explain the core classes and interfaces that are provided in javax.servlet package (08 Marks)

OR

- 8 a. What is JSP tag? Explain the different types of JSP tags. (08 Marks)
- b. What is Cookie? Explain the working of Cookie in JAVA with code snippets. (08 Marks)

### Module-5

- 9 a. Write a program to execute a database transaction. (08 Marks)
- b. Explain JDBC multifier architecture with neat diagram i.e, driver types? Detail. (08 Marks)

OR

- 10 a. Describe the various steps of JDBC process with code snippets. (08 Marks)
- b. Write a note on Database metadata object methods and Resultset metadata object methods. (08 Marks)

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