# CBCS SCHEME

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# Fifth Semester B.E. Degree Examination, June/July 2023 **Advanced Java and J2EE**

Max. Marks: 100 Time: 3 hrs. Note: Answer any FIVE full questions, choosing ONE full question from each module.

- What are Enumeration? Explain values() and valueof() method with an example. (07 Marks) 1
  - Explain various types of wrappers used in Java. (08 Marks) b.
  - Explain how to obtain annotation at run time by use of reflection. (05 Marks)

- Explain the following methods of Java.lang.Enum with an example program.
  - i) ordinal ii) CompareTo() iii) equals()

(06 Marks)

(06 Marks)

- b. What are annotation? Explain the following built-in annotation with program as an example, @override, @inherited and @Retention. (08 Marks)
  - Explain numeric type wrapper with an example program in Java.

## Module-2

- What is collection framework? Explain the methods defined by collection framework 3 interface. (08 Marks)
  - Explain the constructor of TreeSet class and write java program to create TreeSet collection. (07 Marks)
  - Explain the arraylist class of collection classes.

Explain the methods defined by ArryDeque class.

- (08 Marks)
- Explain the constructors of Hashset class with an explain program.
- (08 Marks) (04 Marks)

(05 Marks)

Differentiate between ArrayList and LinkedList.

- Explain the following string comparison methods with examples:
  - equals()
  - ii) regionmatches()
  - iii) startsWith()
  - iv) endsWith().

(08 Marks)

- b. Explain the various string constructor used in Java with examples.
- (08 Marks)

c. Explain any two string Buffer methods with an example.

### (04 Marks)

- Differentiate between equals() & = = with respect to string with a program. (06 Marks) 6 a.
  - Write a program to remove duplicate character from a given string and display the resultant (08 Marks)
  - Explain following character extraction method:
    - ii) to CharArray(). i) CharAt()

(06 Marks)

Module-4

- What is the role of Toncal server? Explain different steps involved in configuring for 7 development of servlet program execution.
  - b. Write a Java Servlet program to accept two parameter from web page, find the sum of them display the result in web.page. Also give necessary html strips to create webpage. (10 Marks)

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- (08 Marks) Explain different JSP tags with a program. 8 (04 Marks) Explain the life cycle of servlets. (08 Marks)
  - What is cookie? Write a JSP program to create and read a cookie.

# Module-5

Explain the various steps of JDBC with code snippets (08 Marks) 9 (06 Marks) Explain the four types of JDBC drives. c. Explain Callable statement object with example. (06 Marks)

# OR

- Write a java program to execute a database transaction. (10 Marks) 10
  - b. Describe the following concepts with code snippets:
    - Scrollable result set
    - ii) Updatable result set
    - iii) Prepared statement object
    - iv) Tomcat.

(10 Marks)