

CBCS SCHEME

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18CS644

Sixth Semester B.E. Degree Examination, June/July 2023

Advanced JAVA and J2EE

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? How to use an enum constructor, instant variable and method. Explain with example. (08 Marks)
- b. What is Autoboxing? Write a Java program that demonstrates autoboxing/unboxing occurs inside expressions. (06 Marks)
- c. What is Annotation? Explain various retention policies for annotations in Java. (06 Marks)

OR

2. a. Explain values() and valueOf() methods used enumeration with example program. (06 Marks)
- b. What do you mean by type wrapper? Explain Numeric type wrapper with an example. (06 Marks)
- c. Explain the following Built-in annotations with an example program
@Override ii) Deprecated iii) @Inherited iv) Target (08 Marks)

Module-2

3. a. What is collections? Explain interface and methods available under collection interface. (10 Marks)
- b. What are comparators? Write a comparator program to sort accounts by last name. (10 Marks)

OR

4. a. Explain the following Map class with suitable program. i) HashMap ii) TreeMap. (10 Marks)
- b. Explain any four legacy classes of Java's collection framework with suitable program. (10 Marks)

Module-3

5. a. What is string? Explain the string constructors with suitable programming examples. (08 Marks)
- b. Explain the string comparison functions with suitable programs. (08 Marks)
- c. Explain indexOf() and lastIndexOf Methods of string class with an example. (04 Marks)

OR

6. a. What is toString() function? Write a program to override toString() and provide your own string representations. (08 Marks)
- b. Explain the following StringBuffer methods with an example :
i) append() ii) insert() iii) reverse() iv) replace() (06 Marks)
- c. Write a program in java to replace all the matching substring with a given string. (06 Marks)

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Module-4

- 7 a. What is servlet? Explain the life cycle of servlets. (06 Marks)
b. Write a Java servlet program that demonstrate how parameters can be accessed from HTML. (08 Marks)
c. What is a session object? Write the program to create and Read session object, using JSP. (06 Marks)

OR

- 8 a. Define JSP? Explain different types of JSP tags by giving suitable programming examples. (12 Marks)
b. Define Cookie. Write a servlet program to add a cookie. (08 Marks)

Module-5

- 9 a. Explain the different step involved in JDBC with a code snippet. (12 Marks)
b. Explain the four types of JDBC drivers. (08 Marks)

OR

- 10 a. Explain the use of object in establishing the connection. Also write a program to call stored procedure. (16 Marks)
b. Explain undatable Result set with a programming example. (10 Marks)
