

CBCS SCHEME

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18CS644

Sixth Semester B.E. Degree Examination, Feb./Mar. 2022

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? Explain values() and valueOf() methods with an example. (06 Marks)
b. Compare and contrast auto boxing and unboxing in java with an example. (06 Marks)
c. What are annotations? Explain the following built in annotations with example : (08 Marks)
i) @Override ii) @Inherited iii) @Retention.

OR

- 2 a. Explain the flowing methods of java.lang.Enum with an example : (05 Marks)
i) ordinal ii) compareTo() iii) equals().
b. What do you mean by type Wrapper? Explain numeric type wrapper with an example. (05 Marks)
c. Explain how to obtain annotations at RunTime by using Reflection. (10 Marks)

Module-2

- 3 a. What is Collection framework? Explain the methods defined by Collection interface. (10 Marks)
b. Explain the constructors of HashSet class with an example. (10 Marks)

OR

- 4 a. Demonstrate ArrayList class for collection with an example. (10 Marks)
b. Explain any four legacy classes of Java's Collection framework. (10 Marks)

Module-3

- 5 a. What is String in Java? Write a java program that demonstrates any four constructors of String class. (10 Marks)
b. Explain and make use of the following String handling methods to modify a String (10 Marks)
i) substring ii) concat() iii) replace iv) trim v) reverse().

OR

- 6 a. Explain any four Strip modification methods of String class. (10 Marks)
b. Explain StringBuffer in detail. (10 Marks)

Module-4

- 7 a. What is the Servlet? List and explain the core classes and interfaces that are provided in javax.servlet package. (10 Marks)
b. Write a java servlet program that demonstrates, how parameters can be accessed from HTML. (10 Marks)

OR

- 8 a. Define JSP. Explain different types of JSP tags with examples. (10 Marks)
b. What is a Cookie? Explain the working of cookie in Java using JSP with code snippets. (10 Marks)

Module-5

- 9 a. Explain the four types of JDBC drivers. (10 Marks)
b. Describe the various steps of JDBC with code snippets (10 Marks)

OR

- 10 a. Write a Java program to execute a database transaction. (10 Marks)
b. Explain :
i) Callable statement object
ii) Prepared statement object (10 Marks)

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