



CBCS SCHEME

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Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 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 program. (05 Marks)
- b. What is Autoboxing? Write a java program that demonstrates how autoboxing and unboxing takes place in expression evaluation. (05 Marks)
- c. What are Annotations? Explain the following Built-in annotations with an example program:
@Override @Inherited @Retention (10 Marks)

OR

- 2 a. Explain the following methods of java.lang.Enum with an example program.
(i) ordinal() (ii) compareTo() (iii) equals() (10 Marks)
- b. Explain how to obtain Annotations at Run Time by use of 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 program. (10 Marks)

OR

- 4 a. Explain the constructors of TreeSet class and write java program to create TreeSet collection. (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. Differentiate between equals() and == with respect to String comparison. (05 Marks)
- c. Explain any two character extraction methods of String class. (05 Marks)

OR

- 6 a. Explain any four String modification methods of String class. (10 Marks)
- b. Explain the following methods of StringBuffer class:
(i) append() (ii) insert() (iii) reverse() (iv) replace (10 Marks)

Module-4

- 7 a. Explain the differences between Servlets and CGI programs. (05 Marks)
- b. Write a Java Servlet program that demonstrates how parameters can be accessed from HTML. (10 Marks)
- c. Explain any two Cookies methods. (05 Marks)

OR

- 8 a. Define JSP. Explain different types of JSP tags by taking suitable example. (10 Marks)
b. List and explain core classes and interfaces in javax.servlet package. (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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