CBCS SCHEME

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Fifth Semester B.E. Degree Examination, Jan./Feb. 2023

Advanced JAVA and J2EE Max. Marks: 100 Time: 3 hrs. Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Compare and contrast boxing and unboxing in JAVA with an example. (06 Marks) What is an annotation? Explain various retention policies for annotation in JAVA. (06 Marks) Build a JAVA program to create an enumeration class of seasons and demonstrate usage of values() and valueOf() methods. (08 Marks) Explain how to obtain annotations at run time by use of reflection. (10 Marks) b. Explain the following methods of java.lang.Enum with an example program: (i) ordinal() (ii) compareTo (iii) equals() (10 Marks) Module-2 Define collection framework. Explain the methods defined by collection interface. (10 Marks) Explain any four legacy classes of java's collection frame work. (10 Marks) OR Explain the constructors of tree set with an example. (06 Marks) Demonstrate array list class for collection with an example. (06 Marks) c. Write the declaration syntax of queue interface and explain any four methods defined by queue. (08 Marks) Module-3 Explain the following string handling methods: (ii) concat() (iii) replace (iv) trim() (i) substring() (08 Marks) b. Develop a java program to count the occurrence of character in a given string. (06 Marks) c. Define string. Explain the different ways of constructing string object. (06 Marks) Explain the following character extraction methods: (i) charA+() (ii) tocharArray() (06 Marks) Differentiate String and StringBuffer Class. Explain reverse() method of string buffer class with example. (08 Marks) c. Explain insert() and append(), String Buffer methods with an example. (06 Marks)

Module-4

- Write a java servelet program that demonstrates how parameters can be accessed from 7 HTML. (10 Marks) b. Differentiate servelets and CGI programs. (05 Marks) (05 Marks)
 - c. Explain any two cookies methods.

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OR

8 a. List and explain core classes and interfaces in javax.servelet.package.
b. Define JSP. Explain different types of JSP tags with suitable examples. (10 Marks)

Module-5

9 a. With neat diagram, explain the different types of JDBC drivers. (10 Marks)

b. Explain the various steps of JDBC with code snippets.

(10 Marks)

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10 a. Write a java program to connect to database using URL and to connect database using user ID and password. (10 Marks)

b. Describe the following concepts:

- (i) Scrollable ResultSet
- (ii) Callable statement
- (iii) Transaction Processing

(iv) Updatable ResultSet

(10 Marks)