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15CS553

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Advanced JAVA and J2EE

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is auto-boxing? Write a program to demonstrate autoboxing/unboxing. (05 Marks)
- b. What do you mean by type wrapper? Explain numeric type wrapper with an example program in JAVA. (05 Marks)
- c. Explain the following methods of java.lang.Enum with an example:
i) ordinal() ii) compareTo() iii) equals() (06 Marks)

OR

- 2 a. Demonstrate single annotation with an example. (04 Marks)
- b. Explain following built-in annotations with a program in Java:
i) @Override ii) @Inherited iii) @Retention (06 Marks)
- c. Explain different retention policies for annotations in Java. (06 Marks)

Module-2

- 3 a. Explain ArrayList. Write a program to demonstrate how ArrayList can be used to insert and remover string. (08 Marks)
- b. Explain Queue interface. Explain different methods defined by Queue. (08 Marks)

OR

- 4 a. Create a class STUDENT with two private string members: USN, Name using LinkedList class in Java, write a program to add atleast 3 objects of above STUDENT class. Also display the data in neat format. (08 Marks)
- b. Explain ArrayList class and explain following methods:
i) binarySearch ii) copyOf iii) equals iv) fill (08 Marks)

Module-3

- 5 a. Explain following StringBuffer methods with an example:
i) insert ii) append iii) replace iv) substring (08 Marks)
- b. Differentiate String and StringBuffer class. Write a program to demonstrate different construction of String class. (08 Marks)

OR

- 6 a. Write a program to remove duplicate characters from a given string and display the resultant string. (06 Marks)
- b. Differentiate between equals() and == with respect to string with a program. (06 Marks)
- c. Explain following character extraction method: i) charAt() ii) toCharArray() (04 Marks)

Module-4

- 7 a. What is the role of Tomcat server? Explain different steps involved in configuring for development of servlet program execution. (08 Marks)
- b. Write a Java servlet program to accept two parameter from webpage, find the sum of them, display the result in web page. Also give necessary html script to create web page. (08 Marks)

OR

- 8 a. Explain different JSP tags with a program to demonstrate all tags. (08 Marks)
b. What are cookies? How cookies are handled in JSP? Write a program to create with name "Username" and cookie value "xyz". Also display stored cookie in webpage. (08 Marks)

Module-5

- 9 a. What are database drivers? Explain different JDBC driver types. (08 Marks)
b. List and explain various statement objects in JDBC. (08 Marks)

OR

- 10 a. Explain different steps involved in JDBC process, with a code snippet. Also give exception handling block. (08 Marks)
b. Write a program to connect to database with following information:
Drive: JDBC/ODBC bridge
URL: "jdbc.odbc:Ex"
Username: "xyz"
Password: "123"
Retrieve all rows with marks > 60 using prepared statement object. Assume following table:
Table Name : STUDENT
Fields : USN-Varchar (20)
Marks-int
Name-Varchar (25)

(08 Marks)

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