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15CS553

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

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. List and illustrate various inherited methods of enumeration. (06 Marks)
b. Discuss values() and valueOf() methods with example. (06 Marks)
c. Discuss Autoboxing / Unboxing with example. (04 Marks)

OR

- 2 a. Discuss annotations and explain how to obtain annotations at Runtime using reflections. (08 Marks)
b. Demonstrate the following:
(i) Using default values in annotation.
(ii) Single member annotation.
(iii) Marker annotations. (08 Marks)

Module-2

- 3 a. List and explain any 5 interfaces defined by collections framework. (10 Marks)
b. Explain the ArrayList class and its various constructors with example. (06 Marks)

OR

- 4 a. How to access collections:
(i) Using an iterator.
(ii) Using for-each loop.
Explain with example. (10 Marks)
b. Explain any 2 legacy classes. (06 Marks)

Module-3

- 5 a. Discuss various string constructors with example. (05 Marks)
b. Discuss various character extraction methods of string class. (08 Marks)
c. Write a program to print length of a string. (03 Marks)

OR

- 6 a. Discuss the following methods:
(i) equals() and equalsIgnoreCase()
(ii) startsWith() and endsWith()
(iii) replace() and trim() (06 Marks)
b. Explain valueOf() method of string class. (04 Marks)
c. Discuss any 3 methods defined in string buffer class with example. (06 Marks)

Module-4

- 7 a. Discuss Life Cycle of Java Servlet. (06 Marks)
b. List out differences between CGI (Common Gateway Interface) and servlets. (04 Marks)
c. What is cookie? List out methods defined by cookie class and write a program to add cookie to 'response'. (06 Marks)

OR

- 8 a. Explain various JSP Tags with example. (05 Marks)
b. Write a short note on Request string in JSP. (04 Marks)
c. Discuss session objects. Write a JSP program to read session attributes. (07 Marks)

Module-5

- 9 a. Explain in detail the steps involved in JDBC process. (10 Marks)
b. Write a short note on 'getConnection()' method. (06 Marks)

OR

- 10 a. What is ResultSet? How to set 'Scroll' option on ResultSet? List all methods of Scrollable ResultSet with brief explanation. (06 Marks)
b. Discuss 'Prepared statement' with example. (06 Marks)
c. Describe ResultSetMetaData with example. (04 Marks)
