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Sixth Semester B.C.A. Degree Examination, June/July 2024 (NEP 2020) (2023 – 2024 Batch Onwards) ADVANCED JAVA AND J2EE

Time: 2 Hours

Max. Marks: 60

Note: Answer any six questions from Part – A and any one full question of each Unit from Part – B.

PART - A

- a) What is an enumeration? How enumeration can be created? (6x2=12)
 - b) List two advantages of Java Beans.
 - c) What is collection framework? List any two goals of collection framework.
 - d) Write the differences between hasNext() and next() method.
 - e) Provide the syntax and an example for the charAt() method to extract characters from a string.
 - f) State two advantages of using distributed computing over centralized computing.
 - g) What are servlets?
 - h) What is the difference between the executeQuery() and executeUpdate() methods of a statement object in JDBC?

PART - B

Unit - I

- 2. a) Demonstrate the usage of the valueOf() and values() methods with an example.
 - b) With an example explain how enumeration values are used to control a switch statement. (6+6)
- 3. a) What is Autoboxing and Unboxing? Explain with an example.
 - b) Write short note on the following:
 - i) Bound and constrained properties
 - ii) Persistence. (6+6)

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(6+6)

Unit - II

- a) i) List any three methods of List interface with its purpose.
 - ii) What is an iterator? Explain with an example.
 - b) Write a Java program that demonstrates the usage of a custom comparator (6+6)for sorting strings in reverse order.
- 5. a) Explain the roles and responsibilities of the Model, View and Controller components in the MVC architecture.
 - b) Explain the usage of the for-each loop in Java when working with collections. Compare and contrast the for-each loop with the traditional approach of (6+6)using an Iterator.

Unit - III

- 6. a) With an example explain the four methods of StringBuffer class.
 - b) Outliffe the key steps involved in developing a basic Remote Method (6+6)Invocation (RMI) Application.
- 7. a) What is the usage of delete() and deleteCharAt() methods? Explain them using their syntax and an example.
 - b) Explain the Advantages and Disadvantages of distributed computing.

Unit - IV

8. a) Explain the three key methods in the lifecycle of a servlet (init(), service(), destroy()).

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- b) Explain the following methods of HttpServletRequest interface with their syntax
 - i) getCookies
 - ii) getMethod
 - iii) getPathInfo
 - iv) getSession.
- 9. a) Explain the key stages involved in the lifecycle of a Java Server Page (JSP).
 - b) i) What are the JDBC statements? Explain.
 - ii) Explain the steps to connect to the database in java. (6+6)