

B.C.A DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023**SEMESTER 3 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY****COURSE : 19U3CRBCA11 - PROGRAMMING IN JAVA***(For Regular - 2022 Admission and Improvement/Supplementary - 2021/2020 Admissions)*

Time : Three Hours

Max. Marks: 75

PART A**Answer All (1 mark each)**

1. Write the syntax of drawString().
2. Define an array.
3. _____ method of DriverManager class is used connect with the database.
4. Explain the use of JRE.
5. Define the purpose of a finally block.
6. Inheritance represents the _____ relationship.
7. Write the syntax of Interface creation.
8. Define JDBC-ODBC driver.
9. Any entity that has state and behavior is known as _____.
10. Explain sleep() in multithreading.

(1 x 10 = 10)**PART B****Answer any 8 (2 marks each)**

11. List out the ways to overload the method.
12. List out the advantages of an Applet.
13. Define dynamic binding.
14. Explain Unicode system.
15. Define the modifier *volatile* and its uses.
16. Write a sample code to initialize a multi-dimensional array.
17. Explain about dynamic polymorphism.
18. Java is simple. Justify.
19. List out the advantages of a package.
20. Define about *Connection* interface.

(2 x 8 = 16)**PART C****Answer any 5 (5 marks each)**

21. Write a program to create contents to a byte stream file.
22. Distinguish method overloading and method Overriding.
23. List out types of variable and explain.
24. Define nested try block with an example.
25. Illustrate JDBC architecture.
26. Write the program to find the factorial of a given using recursive function.
27. Write an event handling Applet program.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Explain different types of control statements.
29. Compare between abstract class and Interface. Write a program using abstract class and interface.
30. Define inter-thread communication. Write a real time banking program using wait() and notify().
31. Write a JDBC program to insert and display the employee details.

(12 x 2 = 24)