

B.C.A. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024**SEMESTER 3 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY****COURSE : 19U3CRBCA11 : PROGRAMMING IN JAVA***(For Regular 2023 Admission and Improvement/Supplementary 2022/2021/2020 Admissions)*

Time : Three Hours

Max. Marks: 75

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

1. Explain sleep() in multithreading.
2. Write a sample code to create a statement object using JDBC.
3. Define class.
4. Define the purpose of event listener.
5. Define the purpose of a finally block.
6. Interface is a mechanism to achieve _____.
7. Define JDBC-ODBC driver.
8. Define an array.
9. _____ is known as the father of Java.
10. Main advantage of Inheritance is -----.

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

11. List out the advantages of an Applet.
12. Define final variable.
13. Define Method Overriding.
14. List out the types of Java comments.
15. Define about *Statement* interface.
16. Write a sample code to initialize a multi-dimensional array.
17. List out the advantages of a package.
18. Thread is created in two ways. Discuss.
19. Define Encapsulation.
20. Define the concept of WORA.

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

21. Distinguish between multitasking and multithreading.
22. "Multiple inheritance in Java is possible by Interface". Prove this.
23. Distinguish method overloading and method Overriding.
24. Distinguish the difference between an object-oriented programming language and objectbased programming language.
25. Illustrate JDBC architecture.
26. Discuss about the default priority. Discuss about the methods for setting and getting priority to a thread.
27. List out the advantages of an array.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Discuss about the five steps to connect Java application with the database using JDBC.
29. Write about exception handling and five terms used in it. Write a program to demonstrate single try with multiple catch blocks.
30. Define different data types available in Java.
31. Illustrate Applet life cycle and its different states.

(12 x 2 = 24)