BCA DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022
(2021 Admissions Regular,2020 Admissions Supplementary/Improvement,2019 & 2018 Admissions Supplementary)
SEMESTER III - CORE COURSE (BCA (CLOUD TECHNOLOGY AND INFORMATION SECURITY MANAGEMENT))
BCA3B11B18 - PROGRAMMING IN JAVA

Time : 3 Hours   **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks   **(10x2=20)**

1. Compare polymorphism and encapsulation.

2. Java is platform independent. Justify.

3. Explain the use of command line arguments with help of an example.

4. Discuss method overriding .

5. Differentiate SQL and IO exceptions in java programming.

6. What are the similarities and differences between an Abstract class and Interface?

7. What you mean by thread priorities?

8. Explain threads.

9. Difference between executeQuery( ) and executeUpdate( ) commands in JDBC programs.

10. What is a Database?

11. Explain JDBC API.

12. Difference between front end and back end applications.

Part B

II. Answer any Six questions. Each question carries 5 marks   **(6x5=30)**

13. Write a note on Non Primitive datatypes in java.

14. Explain the usage of "final" along with inheritance.

15. Discuss about the concepts of objects in java programming.Explain how objects can be declare in java .

16. Explain the need of I/O Exceptions in java.

17. "Interfaces are designed to support dynamic method resolution at run time."Justify with the help of a program.

18. "A thread is a lightweight process". Explain.

19. Write a java program to implement the concept of threading by implementing Runnable Interface.

20. Explain the common JDBC components in detail.

21. How will you connect to a database using JDBC? Illustrate with example.

Part C

III. Answer any Two questions. Each question carries 15 marks   **(2x15=30)**

22. Explain Iteration statements in java with the help of programs.

23. Write a short note on Method Overriding and Overloading. Compare and Illustrate with examples.

24. Explain Exception handling fundamentals and exception types in java programming.

25. Explain in details about threads in Java. Illustrate the creation and working of thread with the help of a program.