B. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024
SEMESTER 5 : COMPUTER APPLICATIONS
COURSE : **19U5CRCAP09 : PROGRAMMING IN JAVA**

(For Regular 2022 Admission and Supplementary 2021/2020/ 2019 Admissions)

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1. Write the command to execute a Java program at command prompt.
2. Define JDBC driver.
3. Threads share the same _____.
4. Define JDBC-ODBC driver.
5. A process is heavyweight while _____ is lightweight.
6. JPanel is a _____ class which can accomodate swing components.
7. _____ term is used to inherit a class from another class.
8. Specify the purpose of Layout manager.
9. Define default access modifier in Java.
10. Explain the use of JRE.

(1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. Explain *for-each* loop.
12. Define the term architectural-neutral.
13. Define the purpose of yield().
14. "Statics variable makes your program memory efficient". Justify.
15. Define ResultSet interface.
16. "AWT is platform independent". Justify.
17. Define abstract method.
18. Distinguish between the following statements
    import packagename. *;
    import packagename.classname;
19. Why should we use JDBC?
20. Identify the two ways of creating the JFrame in Swing.

(2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

21. Differentiate between Swing and AWT.
22. Write about sleep() of multithreading.
23. Distinguish between OOPs over Procedure-oriented programming language.

24. "Multiple inheritance is not directly supported in java". Why?
25. Draw the architecture of JDBC and explain.
26. Discuss multiprocessing and Mutithreading in Java.
27. Write the steps for creating, starting and excecuting a thread.

(5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

28. Define Layout Manager and its types in detail.
29. Compare between abstract class and Interface. Write a program to illustrate abstract class and Interface in Java.
30. Explain the different data types in Java.
31. Define an array, its types, declaration, instantiation and initialization. Write a program to display the elements of an array using for...each loop.

(12 x 2 = 24)