

B.Sc DEGREE END SEMESTER EXAMINATION - OCTOBER 2025**SEMESTER 5 : COMPUTER APPLICATIONS****COURSE : 19U5CRCAP09 : PROGRAMMING IN JAVA***(For Regular 2023 Admission and Supplementary 2022/ 2021/ 2020/ 2019 Admissions)*

Time : Three Hours

Max. Marks: 75

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

1. A _____ is a block of code which only runs when it is called.
2. Attributes can be accessed by creating an object of the class, and by using the _____ operator.
3. Write about the ways to access a package from another package.
4. Write a sample code to draw a circle in an applet.
5. Which method is used to register the driver class using JDBC?
6. Write the output.

```
int x = 5;  
x &= 3;  
System.out.println(x);
```
7. WORA stands for _____.
8. List out the types of container component in AWT.
9. Write the maximum number of components a BorderLayout Manager can accommodate.
10. A process is heavyweight while _____ is lightweight.

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

11. Write the syntax of *drawString()*.
12. Write any three methods of a String class.
13. Distinguish between JCheckBox and JComboBox.
14. Identify the two ways of creating the JFrame in Swing.
15. Write the syntax of for-each loop.
16. Write about the use of *isAlive()*.
17. Write the syntax of *drawLine()*.
18. Define the applications of Java.
19. Why Method Overloading is not possible by changing the return type of method only?
20. Define the term architectural-neutral.

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

21. Distinguish between the keyword *super* and *super()*.
22. Differentiate between *stop()* and *destroy()* in Applet.
23. Define multitasking. It can be achieved in two ways. Which are they?
24. Differentiate between TextField and TextArea in Java.

- 25. Write about sleep() of multithreading.
- 26. Write the advantages of Java Multithreading.
- 27. Differentiate between a constructor and a method.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

- 28. Define GridLayout Manager and create a program to accommodate 9 buttons in a GridLayout Manager.
- 29. Explain the different types of inheritance in Java. Illustrate.
- 30. Write a program to demonstrate matrix multiplication.
- 31. Explain different operators available in Java.

(12 x 2 = 24)