

(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2024

ONLY)

REG.NO.:

24UCS204

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY 2025

BSc.Computer Science(Aided &amp; Sf)

MAXIMUM MARKS: 75

SEMESTER: II

TIME : 3 HOURS

**PART - III****24UCS204 – JAVA PROGRAMMING**

SECTION – A

(10 X 1 = 10 MARKS)

**ANSWER THE FOLLOWING QUESTIONS.**

(K1)

1. Which of the following is not a token?  
(a) Identifier (b) Variable (c) Constant (d) Print f()
2. Which of these keyword is used to define packages in Java?  
(a) pkg (b) PKG (c) package (d) Packages
3. When does exception in java arise in code sequence?  
(a) Run time (b) Compile time (c) Can occur any time (d) Coding time
4. Which of the following method is used to extract a single character from a string?  
(a) chatAt() (b) getchars() (c) getbytes() (d) toCharArray()
5. Which of the following is used to perform all input & output operations in Java?  
(a) Variables (b) Class (c) Methods (d) Streams

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

(K2)

6. Define Constants
7. Write a syntax to create a class in Java.
8. Define Applet.
9. Define AWT
10. Define File.

**SECTION – B (5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Explain simple if statement with suitable example  
(OR)  
b) Discuss For loop with example.
12. a) Illustrate the usage of **this** keyword.  
(OR)  
b) Discuss Thread states with a neat diagram.

**(CONT...2)**

13. a) Describe run time exception with example.

**(OR)**

b) Explain How Applet differs from Application program.

14. a) Write a Java program to concatenate of two Strings.

**(OR)**

b) Write a Java AWT code to display text window.

15. a) Explain Stream classes in Java

**(OR)**

b) Explain reading a byte in java with example.

**SECTION – C**

**(5 X 8 = 40 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) List and explain any four types of operators used in Java with suitable example.

**(OR)**

b) Compare and explain While and Do-While loops with example.

17. a) Discuss declaration, allocation and accessing array elements in Java with matrix multiplication example.

**(OR)**

b) Discuss Interface. How does it support Multiple Inheritance in Java?

18. a) Write a Java program that throws an exception and catch it using a try-catch block.

**(OR)**

b) Explain the life cycle of an Applet.

19. a) Write a Java program to handle keyboard events using KeyListerner Interface.

**(OR)**

b) Illustrate the steps in JDBC connection establishment with example program.

20. a) Compare Byte Stream and Character Stream Classes.

**(OR)**

b) Explain any four methods of File class with example.

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**Ethical paper**