

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2023 ONLY)

23UCC618

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : APRIL- 2026

B.Com.-C.A
SEMESTER: VI

MAXIMUM MARKS: 75
TIME : 3 HOURS

PART - III
PROGRAMMING IN JAVA

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

K1

1. Which of the following enables Java to run on different platforms?
a) Object-Oriented programming b) Multi threading
c) Java Virtual Machine (JVM) d) Dynamic binding
2. Which loop in Java executes its block at least once even if the condition is false?
a) for b) while
c) do...while d) switch
3. Which Java feature allows a class to inherit from multiple sources using interfaces?
a) Classes b) Packages
c) Multiple inheritance d) Multi threading
4. Which block in Java is used to handle exceptions?
a) try b) catch
c) finally d) All of the above
5. Which of the following is a character stream class in Java?
a) FileInputStream b) FileOutputStream
c) FileReader d) DataOutputStream

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

K2

6. Who invented java and when?.
7. What is the difference between break and continue statements in Java?
8. What is the purpose of packages in Java??
9. Define an applet
10. What is the purpose of the File class in Java?

(CONTD 2)

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

11. a) Differentiate Java with C and C++. Explain how Java differs from them
(OR)
b) Expand the history and main features of Java.
12. a) Explain decision-making statements in Java with examples?
(OR)
b) Write a Java program using a for loop to print numbers from 1 to 10.
13. a) Explain interfaces in Java and how they support multiple inheritance with an example
(OR)
b) Write a Java program to create a vector of integers, add 5 elements, and display them
14. a) Explain the use of try, catch, and finally blocks in Java with an example.
(OR)
b) Construct a simple Java applet program that displays “Hello, Applet” on the screen.
15. a) Explain the hierarchy of stream classes in Java.
(OR)
b) Construct a Java program to create a file and write some text into it using character streams.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. K4 & K5**

16. a) Evaluate the basic concepts of Object-Oriented Programming.
(OR)
b) Examine the structure of a Java program with an example.
17. a) Examine all types of loops in Java with syntax and example
(OR)
b) Construct a program that creates a class Student with a method to display student details..
18. a) Examine multi-threading in Java with an example.
(OR)
b) Examine arrays and strings in Java with example.
19. a) Examine graphics programming in Java.
(OR)
b) Construct a program that demonstrates handling multiple exceptions using multiple catch blocks.
20. a) Examine how to read and write primitive data types using in java.
(OR)
b) Measure the concept of Random Access Files in Java.
