

(FOR THE CANDIDATES ADMITTED

24UAI204

DURING THE ACADEMIC YEAR 2024-2027 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : May 2025

B.Sc.(Computer Science with AI & ML) SF

MAXIMUM MARKS: 75

SEMESTER- II

TIME : 3 HOURS

PART - III

24UAI204 – Java Programming

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Oops decompose a problem into a number of entities called ____
 - a) Objects
 - b) Functions
 - c) Classes
 - d) Methods of functions
2. Evaluate the value of expression $6-2+10\%4+7$ ____
 - a) 14
 - b) 12
 - c) 13
 - d) 10
3. Creating an object from a class is also called ____
 - a) Initializing
 - b) Instantiating
 - c) interfacing
 - d) importing
4. Which of these keywords is used to define packages in java?
 - a) pkg
 - b) package
 - c) Package
 - d) PACK
5. Which of these classes contains the methods used to write in a file?
 - a) FileStream
 - b) FileInputStream
 - c) BUfferedOutputStream
 - d) FileBufferStream

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is Software Evolution in Java?
7. What is the other name of Object?.
8. List the types of Inheritance used in Java.
9. Define Packages..
10. What is a File Class in Java?

(CONT...2)

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

11. a) Examine in detail the Benefits of OOP, with example.
(OR)
- b) Illustrate in detail Applications of OOP with example.
12. a) Solve an Electric Power Distribution Company Charges its domestic customer as follows:
- | Consumption Unit | Rate of Charge |
|------------------|------------------------|
| (i) 0 -200 | Rs. 0.50 per unit |
| (ii) 201-400 | Rs.100+0.65 per unit |
| (iii) 401-600 | Rs.230 +0.80 per unit |
| (iv) Above 600 | Rs.390 + 1.00 per unit |
- Write a Java Program Using else-if-ladder
(OR)
- b) Interpret in detail different kinds of Operators in Java with example..
13. a) Apply the concept of Method Overloading with an example Java Program.
(OR)
- b) Illustrate the Structure and Implementation of packages with example.
14. a) How will you create your own exception type? Illustrate with example.
(OR)
- b) Write a Java Program to Illustrate Synchronization concept in Threads.
15. a) Explain in detail Byte Stream Classes with example.
(OR)
- b) Interpret in brief Character Stream Classes 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) Examine in brief Procedure Oriented Programming with example.
(OR)
- b) Analyze in brief the Object Oriented Programming with example.
17. a) Summarize the constants, variables and data types available in Java language with example
(OR)
- b) Discuss the various control structures in Java with suitable examples.
18. a) Write short notes on Classes and Objects in Java with example
(OR)
- b) Interpret a Java Program to Implement Hierarchical Inheritance
19. a) Discuss the various levels of access protection available for packages and their implications.
(OR)
- b) Explain the two ways for creating thread with example. .
20. a) Analyse the various I/O Classes in Java with example.
(OR)
- b) Discuss in brief the Reading and Writing Characters using Files with example.
