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(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2023–2026 ONLY)

SUBJECT CODE 23 UCT 204

REG.NO.

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

END-OF-SEMESTER EXAMINATIONS: MAY – 2024

B.Sc. – COMPUTER TECHNOLOGY **MAXIMUM MARKS: 75**

SEMESTER: II **TIME: 3 HOURS**

PART – III

JAVA PROGRAMMING

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. (K1)

MULTIPLE CHOICE QUESTIONS.

1. Number of primitive data types in Java are……..

   a) 6 b) 7 c) 8 d) 9

2. Automatic type conversion is possible in which of the possible cases?

   a) Byte to int b) Int to long c) Long to int d) Short to int

3. Arrays in java are…….

   a) Object references b) Objects

   c) Primitive data types d) None of the above

4. What is Runnable?

   a) Abstract class b) Interface c) class d) method

5. Exception created by try block is caught in which block…….

   a) Catch b) Throw c) Final d) None

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. (K2)

6. Lint any two differences between C++ and Java
7. What are constants?
8. What are nesting methods ?
9. Define Package in java.
10. Explain Java Random Access File write.

SECTION – B (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Discuss the creating of Objects and Classes.

(OR)

b) Explain the concept Data abstraction with example.

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12. a) Illustrate the usage of arithmetic operators with example.

(OR)

b) Explain the concept of an else if ladder with example.

13. a) Explain constructor.

(OR)

b) The Principal of method overloading .

14. a) Explain the Difference Between Class and Interface.

(OR)

b) Demonstrate the concept of multi-threading.

15. a) Explain how Applet differs from Applications.

(OR)

b) What is exception handling ? Discuss.

SECTION – C (5 X 8 = 40 MARKS)

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

16. a) Discuss Java virtual Machine with architecture.

(OR)

b) Explain – Command Line Arguments with an example.

17. a) Elaborate on type conversion with example.

(OR)

b) Explain on Decision Making and Branching.

18. a) Discuss Method Overloading.

(OR)

b) Discuss the purpose and Significance of Wrapper Classes in Java.

19. a) Illustrate the implementation of Interfaces with an example.

(OR)

b) Explain the Lifecycle of Thread.

20. a) Describe the applet life cycle.

(OR)

b) Demonstrate User-defined Custom Exception in Java.