DECEMBER 2022 **P/ID 37510/PMA2K**

Time : Three hours Maximum : 80 marks

SECTION A — ($10 \times 2 = 20$ marks)

Answer any TEN questions.

1. How Java supports platform Independency?

2. List the five types of Tokens included in Java.

3. Give the general form of Assignment Statement.

4. What is scope of a Variable?

5. Give the general form of ?: Operator.

6. Give the general form of Method Declaration.

7. What is an array? Give an example.

8. Give the general form of finally statement.

9. Define Inter-Thread Communication.

10. What is Command Line Arguments?

11. What is the main difference between Abstract Method and Final Method?

12. What is type Casting? Why is it required in Programming?

SECTION B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. What is a Constant? List different types of Constants with examples.

14. What are Relational Operators? Explain each one of them with example.

15. Describe different forms of Inheritance with Examples.

16. Write a program to illustrate the use of Thread class for creating and running threads in an Application.

17. Explain how to add an Applet to HTML file.

18. Explain Static Data Members and static Member Functions with example.

19. Define a class Square with Data Member : side and methods to compute: squareArea( ), squarePerimeter( ) and squareDiagonal( ).

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. What are the different data types in Java? Explain each one of them with examples.

21. Explain how to exit a loop and also bypassing and continuing in loops.

22. Explain the Enumerated types and Annotations.

23. What is Synchronization? When do we use it? Explain in detail.

24. Write a program to perform the following functions using classes, objects, constructors and destructor wherever necessary.

    (a) Read 5 subject marks of 5 students.

    (b) Calculate the total and print the result on the screen.

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