**MAY 2025** **P/ID 37510/PMA2K**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. List the five types of tokens included in Java.

2. What is type casting?

3. Java is a *platform-independent language*. What does this mean?

4. Give the general form of ?: operator.

5. Give the basic form of class definition.

6. Given $a = 23$ and $b = 5$, find the values of $a/b$ and $a\%b$.

7. What is an exception?

8. Write the general form of a switch statement. Give an example.

9. What is a remote applet?

10. What is the main difference between abstract method and final method?

11. What is an URL ?

12. Define inter-thread communication.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. Explain strings and vectors with examples.

14. Explain command line arguments.

15. Explain how to access class members.

16. Explain how to set thread priority.

17. Give the general form of try block.

18. Explain how to provide interactive input to applet.

19. Explain how to create, declare and initialize arrays.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain Java statements with a table.

21. Give the general forms of while and do statements. Explain with examples.

22. Write a program to sort an array of strings in alphabetical order using compare To ( ).

23. Explain the enumerated types and annotations.

24. Write a program for the use of switch for designing a menu driven interactive program.

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