DECEMBER 2024 **P/ID 37510/PMA2K**

Time : Three hours Maximum : 80 marks

PART A — ($10 \times 2 = 20$ marks)

Answer any TEN questions.

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

2. Give the general form of assignment statement.

3. Give the general form of ?: operator.

4. Given $a = 14$ and $b = 4$, find the values of a / b and $a\%b$.

5. How constants and variables are important in developing programs?

6. What is a vector?

7. Define inter-thread communication.

8. Give the general form of finally statement.

9. What is a remote applet?

10. What is an URL?

11. Define inter-thread communication.

12. What is an abstract class?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. What are symbolic constants? Explain.

14. If int x = 100, what is the value of each of the following expressions?

    (a) $x == 99 + 1 ? 5 : 7$

    (b) $(- x)$

    (c) $x >> 2$

    (d) $x \hat{} x$

    (e) $x\%30$

15. Give the general form of switch statement.

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

17. Explain how to set thread priority.

18. Explain how to add an applet to HTML file.

19. Describe the various sections of a web page.

PART 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. Write a program to convert the given temperature in Fahrenheit to Celsius using the formula $C = \frac{F - 32}{1.8}$ and display the values in a tabular form.

22. Explain wrapper classes.

23. Explain how to design a web page.

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

    (a) Read 6 subject marks of 70 students

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

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