MAY 2024 **P/ID 37510/PMA2K**

Time : Three hours Maximum : 80 marks

PART A — ($10 \times 2 = 20$ marks)

Answer any TEN questions.

1. Give the general form of assignment statement.

2. What is the task of the main method in a Java program?

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

4. What is scope of a variable?

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

6. Given $a = 18$ and $b = 4$, find the values of a / b and $a\%b$.

7. What is an array? Give an example.

8. Define class and object with an example.

9. Give the general form of finally statement.

10. What is Command Line Arguments?

11. What is a string in Java? Name a few string methods.

12. What is an URL?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. Explain wrapper classes.

14. What is a constant? List different types of constants with examples.

15. Write a program to illustrate the use of **Thread** class for creating and running threads in an application.

16. Write a java program that reads the radius of a circle and computes the circumference and area.

17. How to pass arguments to the constructor of a base class?

18. Define a class Square with Data Member: side and methods to compute :

squareArea( ), squarePerimeter ( )

and squareDiagonal ( ).

19. Give the general form of try block.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Explain OOP Principles. *Java is called Machine Independent language* - Justify this statement with proper explanation.

21. Give the general forms of for statement. Explain with example.

22. Explain the enumerated types and annotations.

23. Discuss the role of break and *continue* statements by giving suitable examples.

24. Explain how to design a web page.

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