MAY 2022 **P/ID 37510/PMA2K**

Time : Three hours Maximum : 80 marks

PART A — ($10 \times 2 = 20$ marks)

Answer any TEN questions.

1. Give the contents of Java Environment (JDK).

2. Why do we need the import statement?

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

4. What is type casting?

5. What are the data types supported in Java?

6. How constants and variables important in developing programs?

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

8. Write the expression in Java $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.

9. Define class and object with an example.

10. What is meant by Method Overloading?

11. Define inter-thread communication.

12. What is a String in Java? Name a few String methods.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. Describe in detail the steps involved in implementing a stand -alone program.

14. What are command line arguments? How are they useful?

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

16. Given a positive whole number, write a java program to test whether it is an Armstrong number.

17. Give the list of classes and interfaces in java.util packages.

18. Give the general form of try block.

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

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Give the summary of Java statements.

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

22. Explain wrapper classes.

23. Explain the life cycle of a thread.

24. Explain how to design a web page.

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