DECEMBER 2024 **P/ID 16306/PIT2E**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Java is a platform independent language. Justify the statement.

2. What is data encapsulation?

3. State the need of an array.

4. What is abstract class?

5. What is package?

6. Write the exception handling mechanisms.

7. What is an applet?

8. Write any two I/O stream classes.

9. What is an IP address?

10. Expand AWT.

11. What are the two types of servlets?

12. Distinguish Get and Post methods of HTTP.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. Explain the features of Java in detail.

14. Discuss static methods with an example.

15. Elaborate synchronization with an example.

16. Explain multithreading with an example.

17. Write a Java code to write "hello world" to the file and read the same from the file.

18. Explain four types of containers in java AWT.

19. Discuss servlet architecture with neat sketch.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. State the need of constructor. Elaborate the types of constructors with an example.

21. Explain how interthread communication is achieved in java.

22. Elaborate any five string methods with an example.

23. Design a GUI application using any 5 AWT controls.

24. Discuss Servlet API in detail.

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