MAY 2024 **P/ID 16306/PIT2E**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. List the functionalities of JDK.

2. List the various types of access specifiers.

3. What is method overriding?

4. What is deadlock?

5. Write the keywords used in exception handling mechanism.

6. What is the need of a package?

7. Distinguish string and string buffer.

8. What is an applet?

9. Define proxy server.

10. State the need of an IP address.

11. Write the advantages of servlet?

12. What is web container in Servlet?

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. Elaborate Datatypes in detail.

14. Discuss parameterized constructor with an example.

15. Explain synchronization method in detail.

16. Elaborate interface with an example.

17. Write any three string methods with an example.

18. Discuss servlet life cycle in detail.

19. Explain about the servlet communication in brief.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Write the advantages of Inheritance. Discuss hierarchical inheritance in detail.

21. Explain inter thread communication with an example.

22. Explain serialization and deserialization in detail.

23. Write short notes on the following

(a) Proxy servers

(b) Datagrams

(c) Sockets

(d) MAC address

(e) TCP vs IP.

24. Elaborate how web application are created using servlet in detail.

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