DECEMBER 2022 **P/ID 16306/PIT2E**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Is java purely object-oriented language? Justify your answer.

2. What is method overriding?

3. List the functionalities of super keyword.

4. Distinguish private and default access specifier.

5. Define multithreading.

6. Write the advantages of package.

7. State the need of I/O stream classes.

8. Write short notes on code documentation.

9. What does java URL class represent?

10. Write the advantages of Socket programming.

11. Distinguish between HTTP Get () and Post ().

12. What are the two types of servlets?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. Elaborate single inheritance with an example.

14. Explain abstract class in detail.

15. Discuss the need of interface with an example.

16. Explain how exceptions are handled in Java with an example.

17. Write a Java program to connect employee database using JDBC.

18. Write short notes on servlet life cycle methods.

19. How Servlet Communicates with HTML? Explain.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Create a class called student with the following data members student_name,regno., marks of three subjects, calculate() to compute the total marks scored by each student and getdata() to read the input for 3 students and putdata() is to display 3 student details.

21. Elaborate on synchronization with an example.

22. Explain any five string methods giving examples.

23. Design a GUI application using five AWT controls.

24. Discuss Servlet API in detail.

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