

18. (a) Explain the architecture of JDBC.

Or

(b) Explain how to create a new database and table with JDBC.

19. (a) Explain the anatomy of a JSP page.

Or

(b) Explain Generic Servlet.

20. (a) Discuss on streams API.

Or

(b) Explain functional interface.

PART C — (3 × 10 = 30)

Answer any THREE questions

21. Describe in detail list iterator interface.

22. List and explain the different types of layout managers.

23. Explain the database access with MySQL.

24. Demonstrate the life cycle of a servlet.

25. Discuss on private interface methods.

S.No. 2766

P 22 CSCC 1 A

(For candidates admitted from 2022–2023 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Computer Science – Core Choice Course

ADVANCED JAVA PROGRAMMING

Time : Three hours

Maximum : 75 marks

PART A — (20 marks)

Answer ALL questions.

I. Choose the correct answer : (5 × 1 = 5)

1. Underlying data structure for the linked list class is _____.

- (a) Singly linked list
- (b) Doubly linked list
- (c) Circular linked list
- (d) Square linked list

2. Applets are designed to be embedded within an _____.

- (a) Javascript
- (b) Css
- (c) HTML
- (d) SQL

3. Which class implements a connectionless packet delivery service?

- (a) ServerSocket
- (b) DatagramSocket
- (c) InetAddress
- (d) DatagramPacket

4. _____ are the methods provided by HTTP servlet response to formulate the response to the client.

- (a) sendRedirect and getWriter
- (b) getWriter and sendError
- (c) sendRedirect and sendError
- (d) sendRedirect, getWriter and sendError

5. The filter method in Stream API takes in a _____ as argument.

- (a) Consumer (b) Predicate
- (c) Function (d) Supplier

II. Fill in the blanks : (5 × 1 = 5)

6. _____ method of HashSet class is used to add elements to its object.

7. AWT stands for _____.

8. _____ interface is used to get comprehensive information about the database as a whole.

9. _____ defines an API for communication between the web server and the application program.

10. _____ interface can have more than one default methods.

III. Answer ALL following : (5 × 2 = 10)

11. What are Adapter patterns?

12. Define layout managers.

13. Write short notes on Java networking.

14. Write about JSP.

15. Write notes on optional class.

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b) in each.

16. (a) Write in detail about decorator pattern.

Or

(b) Differentiate array list class and linked list class.

17. (a) Explain the steps involved in developing applet programs.

Or

(b) Explain passing values through parameters.