(FOR THE CANDIDATES ADMITTED   SUBJECT CODE 22 UCT 307

DURING THE ACADEMIC YEAR 2022-23 ONLY)   REG.NO. [   ]

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER – 2023

B.Sc. – COMPUTER TECHNOLOGY   **MAXIMUM MARKS: 50**

III SEMESTER   **TIME : 3 HOURS**

PART – III
ADVANCED JAVA PROGRAMMING

SECTION – A   (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. MULTIPLE CHOICE QUESTIONS.   (K1)

1. Applets that use Swing must be the subclass of_____
    a) JApplet   b) ImageIcon   c) JButton   d) Javax

2. How can constructor be used for a servlet?
    a) Initialization   b) Constructor function
    c) Initialization and Constructor function   d) Setup() method

3. Which implicit object in JSP represents the client's requested information?
    a) request   b) response   c) out   d) session

4. _____ encapsulates business logic.
    a) Message Driven Bean b) Entity Bean c) Object Bean d) Session Bean

5. Which of the following has an advantage of using JDBC connection pool?
    a) Slow performance   b) Better performance c) Using less memory   d) Using more memory

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.   (K2)

6. Differentiate between Swing Button and AWT Button

7. When is destroy() method of a filter called?

8. Which directive is used to provide instructions to the container?

9. What are the advantages of JMS?

10. How does JDBC handle the data types of Java and database?

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SECTION – B   (5 X 3 = 15 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(K3)

11. a) Explain how to add label.

(OR)

b) Explain any 5 swing component classes

12. a) List the applications of servlet

(OR)

b) Sketch the lifecycle of Servlet

13. a) List JSP implicit variables / objects and explain any 3.

(OR)

b) Describe the need for session tracking in JSP

14. a) List the types of EJB and explain

(OR)

b) Describe about Servlet chaining

15. a) List the types of JDBC drivers and explain

(OR)

b) Enumerate the common Components through which JDBC interacts with database.

SECTION – C   (5 X 5 = 25 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(K4 (Or) K5)

16. a) Illustrate with a program to create and display Checkbox.

(OR)

b) Elucidate tabbed pane about swing

17. a) Explain the servlet Architecture

(OR)

b) Elucidate the way of invoking servlet from HTML.

18. a) Illustrate the types of JSP directives

(OR)

b) Illustrate any 5 Servlet Cookies Methods

19. a) Explain in detail EJB server environment

(OR)

b) Demonstrate Servlet chaining with a example.

20. a) Demonstrate the basic steps to access a database using JDBC with a simple application.

(OR)

b) Develop a RMI application to communication between client and server.

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