(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2021-2023 ONLY)

SUB. CODE | 21 UCT 412

REG.NO. [   ]

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

END-OF-SEMESTER EXAMINATIONS : MAY – 2023

B.Sc. – COMPUTER TECHNOLOGY   **MAXIMUM MARKS: 70**

SEMESTER - IV   **TIME : 3 HOURS**

PART – III

ADVANCED JAVA PROGRAMMING

SECTION – A   **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS.   **(K1)**

MULTIPLE CHOICE QUESTIONS.

1. Icons are encapsulated by the _____ class.

   a) JavaIcon   b) JIcon

   c) ImgIcon   d) ImageIcon

2. _____ are small programs that execute on the server side of a Web connection.
   a) Servlets   b) HTML   c) HTTP   d) CGI

3. _____ block starts out like an ordinary Scriptlet, but the Scriptlet is closed at each line with HTML text included between the Scriptlet tags.

   a) switch…case   b) for   c) if…else   d) while

4. _____ are classes that encapsulate many objects into a single object.
   a) Java Beans   b) Servlets

   c) JBean   d) Applet

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

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

6. What is JLabel?

7. Define http servlet.

8. What are JSP directives?

9. Define Enterprise Java Beans Technology.

10. What is a JDBC Data Source?

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SECTION – B   (5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.   (K3)

11.   a)   Describe JText Field and JButton.

(OR)

   b)   How will you create combo boxes and tabbed panes in Java ?

12.   a)   What are the life cycles of a servlet?

(OR)

   b)   Show how to create and compile the servlet source code.

13.   a)   Describe the page directive in JSP.

(OR)

   b)   Sketch the working with cookies.

14.   a)   Show the types of Java Beans.

(OR)

   b)   Describe the uses of servlet chaining.

15.   a)   Describe the JDBC driver types.

(OR)

   b)   Write short notes on JDBC RMI.

SECTION - C   (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS: (K4/K5)

(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS:

16.   How will you create scroll panes and trees in Java ?

17.   How will you create a table in Java? Explain.

18.   Discuss Java Servlet architecture in detail.

19.   Explain the control flow statements in JSP in detail.

20.   How will you invoke Servlet chain? Give an example.

21.   Discuss the three tier database access model in detail.

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