C–6502

B.Sc. DEGREE EXAMINATION, DECEMBER 2022

(FOR AFFILIATED COLLEGES)

(NEW REGULATION 2022 ONWARDS)

COMPUTER SCIENCE

FIRST YEAR – I SEMESTER

22UINTC14/22UCSCC14PROGRAMMING IN C

(Common with B.Sc. Information Technology)

Time : 3 Hours   Maximum : 75 Marks

PART – A   10 x 2 = 20
Answer All Questions

1. Define symbolic constants

2. Recall the use of increment and decrement operators

3. Give examples for formatted input and output statements

4. What is ternary operator? Give example

5. Write the syntax to define a two dimensional array

6. Recall the statements to read and write strings

7. What is scope of a variable?

8. How does the size of the structure is calculated?

9. Define recursive function

10. What is command line arguments?

PART – B   5 x 5 = 25
Answer All Questions

11. a) Describe the structure of c programs

[OR]

    b) List the bitwise operators. Give examples.

12. a) Explain the various formats of if statement.

[OR]

    b) Differentiate break and continue statements with example.

13. a) Write a c Program to print the given array using for loop

[OR]

    b) List the string handling functions and explain

14. a) Explain functions with parameters and return value.

[OR]

b) Elaborate on the use of bitfields with suitable example

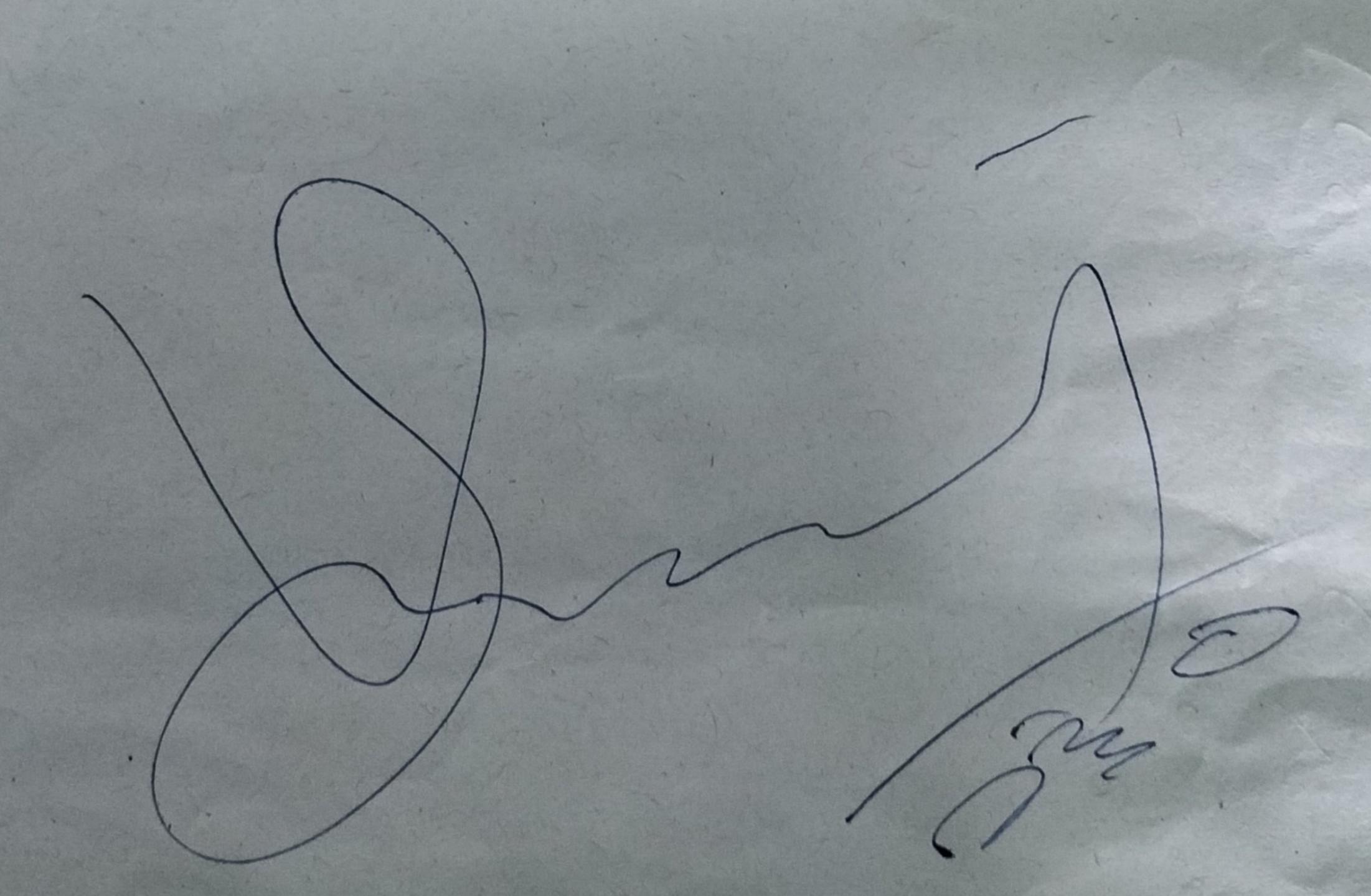15. a) What is a pointer? How the variable is accessed through its pointer?

[OR]

b) Apply pointer increments and decrements on an integer array.

PART – C   **3 x 10 = 30**

(Answer Any Three Questions)

16. Classify the different types of operators. Explain them

17. Explain the following loops

    (a) While

    (b) for

18. Discuss about dynamic arrays with example

19. How do you create an array of structure? Write a c program to create an array of 50 students and print the detail.

20. Explain the file operations. Write examples

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