

19. Write how multidimensional arrays used in C programming with an example.

20. Write a C program to apply the concept of pointers.

**SECTION C – (5 x 10 = 50 marks)**

**ANSWER ALL QUESTIONS**

21. A Explain the history and importance of C Language.

**OR**

B List the C Pre-processor directives and explain with a program.

22. A Illustrate the various data types in C.

**OR**

B Write down the operators & its types in C using examples.

23. A Explain Switch Statement in C to display the days in a week.

**OR**

B Describe the different IF Statement available in C.

24. A List out and expound the String functions in C.

**OR**

B Explain the different Parameter Passing Techniques in C.

25. A Write a C program to apply Enumeration (or enum) in C.

**OR**

B Illustrate the difference between Union and Struct in C with example.

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**END SEMESTER EXAMINATION NOV/DEC-2023**

**First Semester**

**B.Com CA**

**ELECTIVE I – PROGRAMMING IN C AND LAB**

**Time: Three Hours**

**Maximum: 75 marks**

**SECTION A – (15 x 1 = 15 marks)**

**ANSWER ALL QUESTIONS**

1. How many keywords are there in C language?

- |      |      |
|------|------|
| A 32 | C 36 |
| B 33 | D 64 |

2. A C-style comment, simply surround the text with

- |             |             |
|-------------|-------------|
| A /* and */ | C ** and */ |
| B /* and */ | D * and *   |

3. The founder of C Language is

- |                  |                 |
|------------------|-----------------|
| A Dennis Ritchie | C Denny Ritchie |
| B Dennis Ronaldo | D Denny Ronaldo |

4. You can access elements of an array by \_\_\_\_\_.

- |                    |             |
|--------------------|-------------|
| A values           | C indices   |
| B memory addresses | D Variables |

5. Which keyword is used to return values from function?

- A return  
C values  
C return types  
D pointers

5. Every C program must have one \_\_\_\_\_ function section.

- A return  
C main  
C pointer  
D index

7. Which operator connects the structure name to its member name?

- A -  
C .  
C >  
D <

The \_\_\_\_\_ Function is used to display the output on the screen.

- A printf  
C scanf  
C endl  
D cout

The declaration of structure is also called as

- A structure creator  
C structure specifier  
C structure signifier  
D structures

10. \_\_\_\_\_ is invalid header file in C.

- A math.h  
C string.h  
B mathio.h  
D ctype.h

11. The process in which a function calls itself directly or indirectly is called

- A Inline function  
C Main function  
C Recursion Function  
D Duplicate Function

12. Members of a union are accessed as

- A union-name.member  
C union-pointer->member  
B union-pointer  
D union->member

13. Enumeration is a \_\_\_\_\_ data type in C.

- A Built-in  
C User defined  
B Derived  
D Main

14. An array Index starts with

- A -1  
C 2  
C 0  
D 1

15. Pointers are special variables that are used to store \_\_\_\_\_ rather than values.

- A values  
C index  
C addresses  
D null

### SECTION B – (2 x 5 = 10 marks)

#### ANSWER ANY TWO QUESTIONS

16. Illustrate the features and benefits of C Language.

17. Demonstrate Basic Structure of C Programs with an example program.

18. Explain difference between 'while and do while loop' with an example program.