C   **Reg. No. :**

1. Identify the Valid Identifier?   CO1- U

    a) @@@123   b) @123

    c)_123$ d) Keyword

2. ----------- keyword transfers control to a labeled statement?   CO1- U

    (a) goto   (b) break   (c) auto   (d) continue

3. In an array x[10], the x represents the ?   CO1- U

    (a) base address   (b) base value   (c) void pointers   (d) None of the above

4. What will be the output of the following C program?   CO4- App

    ```
    #include <stdio.h>
    int add(int a, int b) {
       return a + b;
    }
    void main() {
    int result = add(5, 3);
    printf("%d\n", result);
    }
    ```
    (a) 8   (b) 53   (c) Compiler Error   (d) done

5. Which of the following is the collection of different data types?   CO1- U

  (a) structure   (b) string   (c) array   (d) All of the above

<div align="center">PART – B (5 x 3= 15 Marks)</div>

6. What is the purpose of scanf( ) and printf( ) functions?.   CO1- U

7. Write a C program using goto statement.   CO3- App

8. Write a C program to get a string and print the string.   CO1- U

9. Write a C program to add two numbers without using return type.   CO4- App

10. Differences between Structure and Union.   CO1- U

<div align="center">PART – C (5 x 16 = 80 Marks)</div>

11. (a) (i) Draw a flowchart and Write a C Program to find the biggest of three   CO2- App   (8)
         numbers
         (ii) Write a C program in C to find the area and Circumference of a   CO2- App   (8)
         circle

<div align="center">Or</div>

    (b) (i) Write a C program in C to find the area and Circumference of   CO2- App   (8)
         a circle
         (ii) Draw a flowchart and Write a C Program to find the simple   CO2- App   (8)
         interest

12. (a) (i) Write a C program to read the age of a candidate and   CO3- App   (8)
         determine whether he is eligible to cast his/her own vote.
         (ii) Write a C program to print the numbers from 1 to 5 using   CO3- App   (8)
         while, do-while and for loop statements.

<div align="center">Or</div>

    (b) (i) Write a C program to Check whether the number is Prime or   CO3- App   (8)
         not using do-while loop.
         (ii) Write a C program to print the numbers in Fibonacci Series   CO3- App   (8)
         using a while loop.

13. (a) (i) Write a C Program to print the elements of 2D-array   CO4- App   (8)
         (ii) Write a C program Find the Length and size of the String   CO4- App   (8)
         using String Functions

<div align="center">Or</div>

    (b) Write a C program to take 5 string from the user and store them in a   CO4- App   (16)
         string and print the elements stored in the string

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14. (a) (i) Write a C program to find the Factorial of a given number using recursion in C. — CO4- App — (8)

(ii) Write a C program to calculate the area of the square using functions. — CO4- App — (8)

Or

(b) Write a C program to swap two numbers using pass by value and pass by reference. — CO4- App — (16)

15. (a) Create a C programming using an Structure called Student with name, class, rollnum, total marks as members. Find and display the grade of each student. — CO4- App — (16)

>80 – Grade A
>60 – Grade B
> 50 – Grade C
<50 - Fail

Or

(b) Create a Union called Book to store information about a book. The Union should include the following members: — CO4- App — (16)

title: A character array to store the book's title

author: A character array to store the book's author

isbn: An integer representing the book's ISBN

number Of Pages: An integer representing the book's number of pages

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