20-05-2026 FE SEM-II (ALL BRANCHES C SCHEME C PROG. QP CODE: 20013627

Time: 2 hour **Max. Marks: 60**

NB: 1) Question No.1 is compulsory.

2) Attempt any three questions from question no. 2 to 6.

Q1	**Solve any Three out of the following (5 marks each)**	**(15)**
A	Explain what is flowchart ? Explain different symbols used in flowchart .	
B	Explain following library functions with proper example. 1. pow( ) 2.ceil( ) 3. floor( ) 4. sqrt( )	
C	Write a program to print following pattern after accepting number of rows from user. 1 2 3 4 5 6 7 8 9 10	
D	Differentiate between Structure and Union.	
E	Explain conditional Operator with proper example.	
Q2		**(15)**
A	What is Recursion? Write a program to find GCD of two numbers using recursive function.	**6M**
B	Explain Different data type modifiers available in C language.	**5M**
C	Write a program to find length of a string without using standard library function.	**4M**
Q3		**(15)**
A	Write a program to display all prime numbers from 100 to 500.	**6M**
B	Write a program in C to find average of N elements entered by user using an array.	**5M**
C	Explain with example left and right shift bitwise operators.	**4M**
Q4		**(15)**
A	Write a program to store information of 10 students using Structure. Information include Roll, name, marks of a student	**6M**
B	Write a C program to check whether user entered string is palindrome or not.	**5M**
C	Write the output for the following code.	**4M**

```
#include<stdio.h>
void main( )
{
        int i;
        for(i=0;i<5i++);
            printf("%d",i);
        printf("\nhi");
}
```


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Q5		**(15)**
A	Write a program to find largest of three numbers.	**6M**
B	Differentiate between entry and exit controlled loop.	**5M**
C	Explain the need of Function Prototype with example.	**4M**
Q6		**(15)**
A	Write a program to check whether square matrix is symmetric or not.	**6M**
B	Write an algorithm and draw flowchart to check whether given number is prime number or not.	**5M**
C	Explain with syntax and example multi-way branching statement	**4M**

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