FE Sem II (R-2019, C Scheme) "All Branches" Dec' 2023

6/12/2023

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.**	**15**
A	Define Flowchart? Explain different symbols used in drawing Flowchart.	05
B	Difference between while loop & do-while loop.	05
C	Explain Different data type modifiers available in C language.	05
D	Write a program to print the following pattern for number of rows given by the user.	05

                 1
                 21
                 321
                 4321

E	Write a program to display all prime numbers from 1 to 50.	05
Q2		**15**
A	Differentiate between break and continue.	05
B	Explain the following functions with proper example. i) pow( ) ii) ceil( ) iii) floor( )	05
C	Write a program to find value of y using recursive function , where $y = x^n$	05
Q3		**15**
A	Explain the sizeof( ) operator with proper example.	05
B	Write a program to find the factorial of a given number.	05
C	Write a program to store and display the name, roll no. and fees of 100 students using structure.	05
Q4		**15**
A	Write a short note on Structure.	05
B	Write a program to find the largest of 'n' numbers taken from user.	05
C	Explain conditional Operator with proper example.	05
Q5		**15**
A	Explain flowing functions with proper example. i) strcmp( ) ii) strcat ( ) iii) strlwr( )	05
B	Write a program to accept the elements of square matrix and to find sum of elements present on, above and below principal diagonal.	05
C	Write a program to find square root of a accepted perfect square integer number **without** using standard sqrt( ) function.	05
Q6		**15**
A	Write a program to add two numbers using user defined function.	05
B	Define array? Explain the static and dynamic initialization of 1D array.	05
C	Draw flowchart to find largest of Three numbers, accepted from user.	05

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