1T01832 - F.E.(SEM II)(ALL BRANCHES) Choice Base (Rev - 2019-20 C Scheme) / 29715 - C Programming QP CODE: 10033506 DATE: 27/06/2023.

Time: 2 hour		Ma	x. Marks: 60

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

Q1	Solve any three out of the following.	15
A	List and explain different components of Computer System.	05
В	Write a program to find largest of three numbers using nested if-else.	05
C	Explain function prototype with proper example.	05
D	Explain the following functions with proper example.	05
	a) strlen() b) strcmp() c) strcat()	
Ê	Define Structure and explain the syntax of declaration of Structure with example.	05
Q2		15
A	Define Flowchart and Draw flowchart to find sum of digits of an accepted number.	05
В	Write a program to sort the elements of one dimensional array in ascending order.	05
C	Explain conditional operator with proper example.	05
Q3		15
A	Explain control breaking statements available in C language.	05
В	Write a program to calculate value of $f(x)$, if x has different ranges of values	05
	as below	
	$f(x) = x^2 + 2$ 0<=x<=10	
	$= x^2 + 2x$ $10 < x < 20$	
	$= x^3 + 2x^2$ $20 < x < = 30$	
	=0 x>30	
C	Write a program to check whether the entered string is palindrome or not.	05

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Q4		15
A	Explain different data type modifiers available in C language.	05
В	Write a program to find square root of a accepted perfect square integer	05
	number without using standard sqrt() function.	
C	Explain the multi-way branching statement available in C language with	05
	example.	
Q5		15
A	Write a program using function to check if the entered number is prime	05
	number or not.	
В	Define recursion and Write a program to calculate power of a given number	05
	using recursive function.	
C	Write a program to accept number of rows from user and display following	05
76	patterns for expected number of rows.	
<i>y</i>	1234	
	123	
750.		
Q6		15
A	Write a program to find transpose of a square matrix using only one matrix.	05
В	Write a program to design a structure Employee with members Employee No,	10
	Employee Name, Experience and salary. Read the information of 100	
	employees and display employee information that is having 5 years or more	
	experience and salary less than Rs. 10,000.	
	experience and sarary less than Ks. 10,000.	

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