Paper / Subject Code: 29715 / C Programming

(S-Scheme R.2019) Sem II. FE

27/6/2023

Time: 2 hour

Max. Marks: 60

NB: 1) Question	No.1	is compul	sory.
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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()	
E	Define Structure and explain the syntax of declaration of Structure with	05
5	example.	
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< th=""><th></th></x<=30<>	
	= 0 x>30	
· C	Write a program to check whether the entered string is palindrome or not.	05
	1 5 painter on not.	05

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	Q	4	
	A	Explain different data type modifiers available in C language.	15 05
	В	Write a program to find square root of a accepted perfect square integer	05
	C	number without using standard sqrt() function. Explain the multi-way branching statement available in C language with example.	05
(Q5		
1	4	Write a program using function to check if the entered number is prime number or not.	15 05
Е	3	Define recursion and Write a program to calculate power of a given number using recursive function.	05
C		Write a program to accept number of rows from user and display following patterns for expected number of rows. 1234	05
		2	
	1		
Q6			
A B	En	rite a program to design a structure Employee with	15 05 10

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