Paper / Subject Code: 29715 / C Programming

May 29, 2024 10:30 am - 12.30 pm 1T01832 - F.E.(SEM II)(ALL BRANCHES) (Rev - 2019-20)(C Scheme) / 29715 - C Programming QP CODE: 10056109

Time: 2 Hours		ours Max. Mark	Max. Marks: 60		
NB: 1) Question No.1 is compulsory.					
1 (1)		tempt any three questions from question no. 2 to 6.	Sp.		
	,		2		
	Q1	Solve any three out of the following.	15		
	\mathbf{A}	Write a C program to get age and vaccination details as input. Print "senior	05		
		citizen and eligible for booster" if age > 60 and vaccination input as '2',	1		
		otherwise print "below 60 and eligible for vaccination". Use conditional),		
	ъ	operator, and the second of th	0.5		
	В	Write string handling functions in C used to do following task:	05		
		• If first name, middle name, last name given as an input display it as a			
	4	full name.	A		
	16	Display number of characters in full name.	4		
	5	• Convert first name into capital letters and last name into small letters.			
.1		• print the full name in reverse order Write a progress to print following pattern for given symbol of rows	05(
SAT	, C	Write a program to print following pattern for given number of rows.	05		
Y	25	333	,,		
	20	4444			
.1	0	\$55555 \\ \frac{1}{2} \\ \frac{1} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\			
3	D	Differentiate between Structure and Union.	05		
5	\mathbf{E}	Explain formal parameters and actual parameters with an example.	05		
<i>V</i>					
	Q2		15		
6	A	What is the purpose of switch statement and write a C program to input an	05		
B		alphabet and check whether it is vowel or consonant using switch case.			
10,	В	Write a C program using function to check if the entered number is prime	05		
7	-8	number or not.	0.0		
	40				
2	\mathcal{C}	What is an identifier (variable)? What are the rules to construct identifier	05		
1		(Variable)? Classify the following as valid/invalid Identifiers.			
(-)		i) num2 ii) \$num1 (iii) +add iv) a 2			

66109 Page 1 of 2

them with appropriate messages.

numbers using array.

Write a C program that takes three coefficients (a, b and c) of a quadratic

Equation; $(ax^2+bx+c=0)$ as input and compute all possible roots and print

Define array. Write a C program to find the sum and average of n integer

15

10

05

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Q4	15	5
A	What is nested Structure? Explain with proper example.	19/8
В С	Explain pointer operators with proper example. Write a C program to replace all occurrences of a character with another in a 05	15 15 15 15 15 15 15 15 15 15 15 15 15 1
	string.	15 h
Q5	Write a program to calculate power of a number(x raised to n), accept value 05	25
A B	Write a program to calculate power of a number(x raised to n), accept value of x and n from the user. What is the necessity of parameter passing to function? What are the two 05	167
В	ways of parameters passing to function? Explain any one in detail.	46
C	Give the difference between break and continue with an example. 05	45/5
Q6	15 A A 15 15	STORY
A	Write a C program to find sum of principal diagonal elements of a given of square matrix.	3, 75
В	Define Recursive function. Write a Program to find GCD of two numbers 05	B
40	using Recursive function.	46,
1500	Define pseudocode. Draw flowchart and write a pseudocode to find whether given number is palindrome or not	277
	given number is paintarone of not	ř
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