Paper / Subject Code: 29715 / C Programming

Time: 2 hour Max. Marks: 60 NB: 1) Question No.1 is compulsory. 2) Attempt any three questions from question no. 2 to 6. Solve any Three out of the following (5 marks each) 01 **(15 marks)** Explain what is flowchart? Explain different symbols used in flowchart. Α Explain following library functions with proper example. В 1. pow() 2.ceil() 3. floor() 4. sqrt() Write a program to print following pattern after accepting number of rows from user. 1 \mathbf{C} 23 456 78910 Differentiate between Structure and Union. D Explain conditional Operator with proper example. E Q2 (15marks) What is Recursion? Write a program to find GCD of two numbers using recursive function. 6M Explain Different data type modifiers available in C language. 5M B Write a program to find length of a string without using standard library function. 4M Q3 (15marks) Write a program to display all prime numbers from 100 to 500. 6M Write a program in C to find average of N elements entered by user using an 5M array. Explain with example left and right shift bitwise operators. 4M**Q4** (15marks) Write a program to store information of 10 students using Structure. Information A include Roll, name, marks of a student Write a C program to check whether user entered string is palindrome or not. 5M

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C	write the output for the following code.	41 V I
	#include <stdio.h></stdio.h>	
	void main()	
	int i;	
	for(i=0;i<5i++);	
	printf("%d",i);	
	printf("\nhi");	
Q5		
(15marks)		
A	Write a program to find largest of three numbers.	6M
В	Differentiate between entry and exit controlled loop.	5M
С	Explain the need of Function Prototype with example.	4M
Q6		
(15marks)		
(15marks)	Write a program to check whether square matrix is symmetric or not.	6M
A	write a program to eneck whether square matrix is symmetric or not.	Olvi
В	Write an algorithm and draw flowchart to check whether given number	r is prime
	number or not.	5M
20,0	Evaloin with contay and axample multi way branching statement	411

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