United College of Engineering and Research, Prayagraj
Department of Applied Sciences & Humanities
B.Tech.
2nd Sessional Examination (2020-21)

Semester: I SEM
Subject Name: Programming for Problem Solving
Time: 2:00 Hour

Subject Code: KCS-101
Max Marks: 30

Section-A

Question No.	Questions	Max. Marks	CO	BL
1	**Attempt all**			
a	Explain the significance of null character is string.	1	CO4	L2
b	Differentiate between Structure and Array.	1	CO4	L2
c	Define recursion with example.	1	CO3	L2
d	Define pointers.	1	CO4	L2
e	Explain function prototype? Why is it required?	1	CO3	L2

f	#define PRODUCT(n) (n*n)
	 #include<stdio.h>
	 void main()
	 {
	 in j;
	 j=64/PRODUCT(4);
	 printf("%d", j);
	 }
	 Find the output of above program
		1	CO5	L2

Section-B

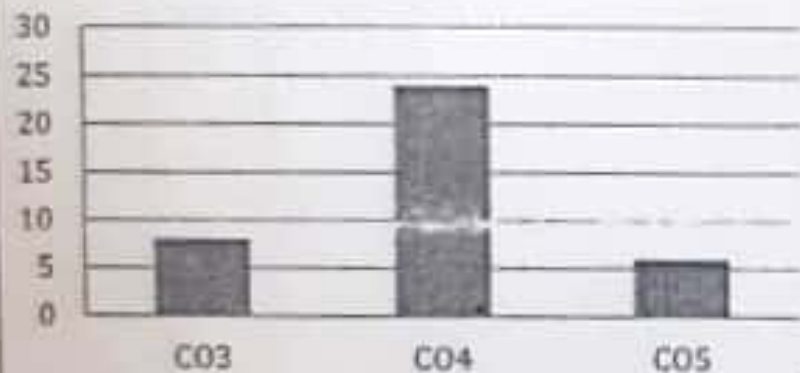|				
2	**Attempt Any three**			
a	What do you mean by call by value and call by reference? Write a program for swapping two numbers using call by reference technique.	3	CO3	L2
b	Write a program to multiply two matrices of dimension 3*3 and store and result in another matrix.	3	CO4	L2
c	Write a C program to print fibbonacci series using recursion.	3	CO3	L2
d	Write a C program to check given two strings are palindrome or not.	3	CO4	L2

P.T.O

Section-C

3	Attempt any three			
a	Explain selection sort technique for solving problem. Also write an algorithm for selection sort. Sort the following numbers using selection sort technique 4-26, 54, 93, 17, 77, 31.	5	CO4	L3
b	Define a structure? Write a program in C to create a data base of fifty students to store personal details such as roll-no., name and marks. Print all the details of st6udent whose name is entered by the user.	5	CO4	L3
c	Define string. Write short notes on following string function 1. Strcat( ) 2. Strcmp( ) 3.strrev( ) 4. Strlen( )	5	CO4	L2
d	What are the different file opening mode in C. Write a program copy the content of one file into other file	5	CO5	L2

~*Best of Luck*~

Course Outcome Wise Marks Distribution

Bloom level marks distribution

■ L2 ■ L3