

United College of Engineering and Research, Prayagraj  
Department of Applied Sciences & Humanities  
B.Tech.

I<sup>st</sup> Sessional Examination (2020-21)

Semester: I SEM

Subject Name: Programming for Problem Solving

Subject Code: KCS101T

Time: 2:00 Hours

Max Marks: 30

<u>Section-A</u>				
Question No.	Question	Max. Marks	CO	BL
1	Attempt all			
a	State difference between volatile and non-volatile memory.	1	CO1	L1
b	What do you mean by Syntax and Logical error?	1	CO1	L2
c	Write any 4 services of Operating System.	1	CO1	L2
d	C=1234>>2; find value of C.	1	CO2	L3
e	Define C tokens.	1	CO1	L2
f	int A=1; printf("%d %d",++A + A++,A++ + ++A+A); Find output.	1	CO2	L2
<u>Section-B</u>				
2	Attempt Any Three			
a	Explain different types of operators in C. What do you mean by operator precedence and associativity with example.	3	CO2	L2
b	Define data types in C. Define primitive data types in term of memory size, format specifier and range.	3	CO2	L2
c	Write a program to find the real root of quadratic equation.	3	CO2	L3
d	Write a program to check given number is palindrome or not.	3	CO3	L3
<u>Section-C</u>				
3.	Attempt any three			
a	What is flow chart? Discuss the different symbols used in flow chart. Also explain Basic structure of C program.	5	CO2	L2
b	What do you mean by Case Control statement in C? Also define use of break and default statement. Write a Program to implement basic Calculator using Case control statement.	5	CO2	L2,L3
c	Explain difference between Entry and Exit control loop with Syntax. Write a program to check given number is prime or not.	5	CO3	L2,L3
d	Draw neat block diagram of digital computer. Also explain its all components in brief.	5	CO1	L1,L2

~\*Best of Luck\*~