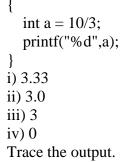
Enro	ollment No: _		Exam Seat No:		
		C.U.SHAH	UNIVERSITY		
			amination-2019		
Subj	ect Name : I lect Code : 4' ester : 1	Fundamental of Computer 1 TE01FCP1 Date: 22/03/2019	Programming Branch: B.Tech (All) Time: 02:30 To 05:30	Marks: 70	
() ()	2) Instruction3) Draw near	rogrammable calculator & anyons written on main answer be at diagrams and figures (if necessitable data if needed.		prohibited.	
Q-1 a)		the following questions:			(
b)					
c)		ate between system software	and application software.		
d)	Why is it i	not recommended to use GO	ΓO statement?		
e)		dle level language. Justify.			
f)		rcat() function.			
g)	i) places pii) automaiii) accepts		epares then for execution le language into machine language level language and produces an		
h)		ald be the output: () 10/3;			
	}	, o a , u, ,			
	i) 3.33				
	ii) 3.0				
	iii) 3				



i)

```
int main()
int a=5;
printf("%d %d %d", a ,a++, ++a);
return 0;
i)5, 6, 7.
ii) 7, 6, 6
iii). 5, 6, 6
iv). None of the above
```



Attempt any four questions from Q-2 to Q-8						
Q-2	(a) (b)	Attempt all questions What is computer? Explain block diagram of computer system in detail What is the use of continue statement and explain it with the help of an example.	(14)			
Q-3	(a) (b)	Attempt all questions What is flowchart? Draw a flowchart to find maximum number among given three numbers. Explain basic structure of a C program with suitable example.	(14)			
Q-4	(a) (b)	Attempt all questions Write a C program to find all prime numbers from an array of integer elements. Explain four storage classes automatic, register, extern and static available in C.				
Q-5	(a) (b)	Attempt all questions What do you mean by entry controlled loop and exit controlled loop in C? Explain both with suitable example. How switch statement differs from if statement? Write a C Program to perform basic arithmetic operations addition, subtraction, multiplication and division using switch statement. (Hint: get choice of operation from user)	(14)			
Q-6	(a) (b)	Attempt all questions Write a C program to find vowels and consonants from a given string input. What is command line argument in C? Explain with an example.	(14)			
Q-7	(a) (b)	Attempt all questions What is pointer? How to use pointer in C? List out advantages of pointer in C. What is structure and union in C? Differentiate structure and union in C with suitable example.	(14)			
Q-8	(a) (b)	Attempt all questions Explain use of malloc(), calloc() and free() functions with their syntax and an example. What is recursion? Write a C program to find factorial of a given number using	(14)			

j)

What is token in C?

n) Explain fopen() in C.

k) What is use of typedef in C?
l) Give an example of sizeof() operator in C.
m) How to declare a file pointer in C?

