Enr	ollment No:		Exam Seat No:	
		C.U.SHAH	UNIVERSITY	
		Summer Exa	amination-2019	
Subj	ect Name : l ect 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 & any ons written on main answer be at diagrams and figures (if necessitable data if needed.	•	prohibited.
-1	Attemnt 1	the following questions:		
-1 a)	_			
b)				
c)		ate between system software	and application software.	
d)		not recommended to use GO		
e)		ldle level language. Justify.		
f)	Explain st	trcat() function.		
g)	An interpr	reter is a program that	·	
		programs into memory and pr	-	
			e language into machine languag	
	-		level language and produces an	object program
٠		rs to execute a resource as if i	t were machine language	
h)		uld be the output:		
	void main	1()		
	:	10/2.		
	int $a = 1$	•		
	printi("	%d",a);		
	i) 3.33			
	1) 3.33			

```
ii) 3.0
iii) 3
iv) 0
```

Trace the output. 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				
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?

