Enrollment No:				
		C.U.SHAH	UNIVERSITY	
		Summer Exa	amination-2016	
Subject	Name: Fu	ndamentals in Computer	Programming	
Subject Code: 4TE01FCP1			Branch: B.Tech(ALL)	
Semeste	r: 1	Date: 29/04/2016	Time: 10:30 To 01:30	Marks: 70
(2) (3)	Instruction Draw neat Assume su	_	y other electronic instrument is p ook are strictly to be obeyed. cessary) at right places.	romoned.
a) b) c) d) e) f) h) i)	program operator gets() an	n t g system and assembler control structure		

## Attempt any four questions from Q-2 to Q-8 $\,$

Q-2		Attempt all questions	
	a)	Explain basic structure of C program with suitable example.	5
	<b>b</b> )	Draw block diagram of computer system and explain each block in detail	5
	c)	Differentitte between Entry-Controlled Loop and Exit-Controlled Loop	4
Q-3		Attempt all questions	
	a)	Explain C tokens in detail with suitable example.	5
	<b>b</b> )	Draw a flowchart and algorithm to find maximum of three different numbers.	5
	(	Explain various types of program control structures with example.	



Q-4		Attempt all questions	
	a)	Enlist various operators and explain any four operators used in C programming.	5
	<b>b</b> )	Write a C program for simple calculator using switch statement.	5 5
	c)	Write a C program to check whether given number is prime or not.	4
Q-5		Attempt all questions	
	a)	Enlist types of type conversion and explain with suitable example.	5
	<b>b</b> )	Write a C program for simple calculator using elseif ladder.	5
	c)	Write a C Program to check whether given number is Armstrong or not.	4
Q-6		Attempt all questions	
-	a)	Explain one dimensional array with suitable example.	5
	<b>b</b> )	Explain storage classes used in C programming	5 5
	c)	Differentiate between structure and union.	4
Q-7		Attempt all questions	
	a)	Explain categories of user defined function with suitable example.	5
	<b>b</b> )	Explain bit fields with suitable example.	5 5
	c)	Explain chain of pointer with suitable example.	4
Q-8		Attempt all questions	
•	a)	Explain Command line argument with suitable example.	5
	<b>b</b> )	What do you mean by dynamic memory allocation? Explain malloc(), calloc(),	5
	/	realloc() and free() function with suitable example.	
	c)	Explain following functions: fopen(), fclose(), fprintf(), fscanf().	4

