<b>Enrollment No:</b>	Exam Seat No:
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## C. U. SHAH UNIVERSITY

## Winter Examination-2020

**Subject Name: Fundamental of Computer Programming** 

**Subject Code: 4TE01FCP1 Branch: B.Tech (All)** 

Semester: 1 Date:15/03/2021 Time: 03:00 To 06:00 **Marks**: 70

## **Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

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Q-1		Attempt the following questions:	(14)
	a)	What is algorithm?	1
	<b>b</b> )	Define token.	1
	<b>c</b> )	What is the use of Goto statement in C Language?	1
	<b>d</b> )	What is null pointer?	1
	<b>e</b> )	Define compiler.	1
	f)	What is type conversion?	1
	g)	Explain symbolic constant.	1
	h)	Define software.	1
	i)	What is interpreter?	1
	$\mathbf{j})$	Explain use of free() function.	1
	<b>k</b> )	What is chain of pointer?	1
	1)	What is Trigraph sequence?	1
	m)	What is call by reference?	1
	n)	What are the basic data types in C?	1
Atter	npt any	four questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
Q- <b>2</b>	(a)	What is computer? Explain history of computer.	7
	(b)	Explain basic structure of C Language with suitable example.	7
	(6)	Explain basic structure of a Language with surtuble example.	,
Q-3		Attempt all questions	(14)
	(a)	Draw flowchart to find out maximum number from three numbers.	7
	<b>(b)</b>	Write a program to check enter value is positive, negative or zero using Else-if Statements.	7
Q-4		Attempt all questions	(14)
<b>~</b>	(a)	What is Variable? Explain rule of variable with variable constant.	7
	(u)	That is variable. Explain full of variable with variable constant.	Daga 1 of 3



	<b>(b)</b>	Differentiate while loop and do-while loop.	7
Q-5		Attempt all questions	(14)
_	(a)	What is an array? Explain two dimensional array with example.	7
	<b>(b)</b>	What is pointer? How to declare pointer? Explain advantages of pointer.	7
Q-6		Attempt all questions	(14)
	(a)	Write down difference between structure and union.	7
	<b>(b)</b>	Explain function with arguments and without return value with suitable example.	7
Q-7		Attempt all questions	(14)
	(a)	What is Recursion? Write a program to find out factorial of given number using recursion.	7
	<b>(b)</b>	Explain command line argument with suitable example.	7
Q-8		Attempt all questions	(14)
	(a)	What is dynamic memory allocation? Explain various memory allocating functions in detail.	7
	<b>(b)</b>	Write a program to perform arithmetic operation using Switch-Case statements.	7

