

# 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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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) What is algorithm?	1
	b) Define token.	1
	c) What is the use of Goto statement in C Language?	1
	d) What is null pointer?	1
	e) Define compiler.	1
	f) What is type conversion?	1
	g) Explain symbolic constant.	1
	h) Define software.	1
	i) What is interpreter?	1
	j) Explain use of free() function.	1
	k) What is chain of pointer?	1
	l) What is Trigraph sequence?	1
	m) What is call by reference?	1
	n) What are the basic data types in C?	1

**Attempt any four questions from Q-2 to Q-8**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) What is computer? Explain history of computer.	7
	(b) Explain basic structure of C Language with suitable example.	7
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) Draw flowchart to find out maximum number from three numbers.	7
	(b) Write a program to check enter value is positive, negative or zero using Else-if Statements.	7
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) What is Variable? Explain rule of variable with variable constant.	7



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

