Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER - I-II (NEW) • EXAMINATION - WINTER • 2014

Subject Code: 2110003 Date: 01-01-2015

Subject Name: Computer Programming and Utilization

Time: 10:30 am - 01:00 pm **Total Marks: 70**

Instructions:

- 1. Question No. 1 is compulsory. Attempt any four out of remaining six questions.

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A

1				MARKS	
(a)	Objective Question (MCQ)			07	
1.	Software required to run the hardware is known as				
	(a) Task Manager	(o) Task Bar		
	(c) Program Manager	(d) Device Driver		
2.	Which the following is applicat	ion s	oftware?		
	(a) Compiler	(o) Power Point		
	(c) Debugger	(d) None of the above		
3.	Which of the programming independent language?	lan	guage is said to be machi	ne	
	(a) High Level Language	(o) Machine Language		
	(c) Assembly Language	(d) All the Above		
4.	What will be a meaning of 1KE	of n	emory		
	(a) 1 Kit Bit (b) 1 Kilo Byte	(c)1	Kernel Boot (d) 1 Key Block		
5.	Which of the following is small	lest N	etwork?		
	(a) MAN (b) LAN	(c) WAN		
6.	FTP stands for				
	(a) File Transport Protocol	(b) File Transfer Protocol		
	(c) Folder Transfer Protocol				
7.	When a key is pressed on k	keybo	ard, which standard is used f	or	
	converting the keystroke into the corresponding bits				
	(a) ANSI	(o) ASCII		
	(c) EBCDIC	(l) ISO		
		Ol	R		
(a)	Objective Question (MCQ)			07	
1.	Which one is input device?				
	A Monitor	C	Keyboard		
	B CPU	D	Printer		
2.	Which part of CPU perform cal	lculat	ons and make decision		
	A Alternate Logic Unit		C Arithmetic Local Unit		
	B Arithmetic Logic Unit		D Alternate Local Unit		
3.	RAM stands for				
	A Random Access Memor	•	C Read Access Memory		
	B Random Automatic Mer	mory	D Read Automatic Memor	У	
4.	The memory capacity of a computer is represented in				
	A Kilobits C	1	Kilobytes		
	B Memory chips D)	None of the above		

C

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		B Multimedia Objects I	Tables and fi	rames	
	6.	What type of memory is volatil	?		
		A Cache C	RAM		
		B ROM D	Hard Drive		
7	7.	With regards to Email Address	s:		
		A They must always conta	in an @ symbol		
		B They are case sensitive	-		
		C They can never contain	space		
		D All of above	•		
	(b)				07
	1.	Structure can contain elements	of the same data typ	pe	
		(a) true	(b) false		
	2.	Which of the following oper	` '	ect a member of a	
		structure variable			
		(a) .(dot)	(b) ,(comma)		
		(c) : (colon)	(d) ;(semicolon	4)	
	3.	C is a language	(4) ,(801111031311	,	
	٠.	(a) High Level	(b) Low Level		
		(c) Middle Level	(d) Machine Le	vel	
	4.	A declaration float a,b; occupie	` '		
	т.	(a) 1 bytes	(b) 4bytes	, .	
		(c) 8byte	(d) 16 bytes		
5	5.	Which function reallocates men	` '		
	٥.	(a) realloc	(b) calloc		
		(c) malloc	(d) None of the	202	
	6.	Which of the following is used	` /		
	υ.	(a) 0	(b) $\setminus 0$	ion character:	
		(a) 0 (c) /0	(d) None of the	NCA	
	7.	File manipulation functions in	` '		
	7.	(a) streams.h	(b) stdio.h	men neader me:	
		(c) stdlib.h	(d) files.h		
		(c) stuno.n	(d) Illes.ii		
Q.2	(a)	Explain the different data types	of Clanguage		03
Q.2	(b)	Recall the definition of dyna		eation? Differentiate	04
	(D)	between malloc and calloc?	inc memory anoc	ation: Differentiate	V 1
	(c)	What is string? Write a program	n to concetenate twe	o strings without	07
	(C)	using built in function.	i to concatenate two	J strings without	07
		using built in function.			
Q.3	(a)	Compare "call by value" & "ca	1 by reference" wit	h cuitable evample	03
Q.S	(a) (b)	Explain inline function with ex	•	ii suitable example.	04
	, ,	Write a program to print the fo	-		07
	(c)	write a program to print the for	lowing pattern		U7
		1			
		$\begin{array}{ccc} 1 \\ 2 & 2 \end{array}$			
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
		4 4 4 4			
0.4	(2)	What is Dointon in Co Frantis !	a advantaces		02
Ų.4	(a)	What is Pointer in C? Explain i	•	nhan ia maima ammat	03
	(b)	Write a C Program to check wh	-	-	04
	(c)	Explain various categories of for	nctions with suitab	ie example. http://w	ww.guj 07 atstudy.com

Q.5	(a)	What do you understand by recursive function? Explain with small example.	03	
	(b)	Illustrate the concept of "structure"? Explain how can we access structure members?	04	
	(c)	Write an algorithm and draw a flowchart to print first N Fibonacci numbers.	07	
Q.6	(a)	Distinguish between Structure and Union.	03	
	(b)	Write a program to do swapping of two elements using function with two pointers as arguments.		
	(c)	Discuss about various operators used in C language.	07	
Q.7	(a)	Describe file management? Recall various file modes.	03	
	(b)	Explain following string manipulation function. strcat(), strcpy(), strcmp() and strlen()	04	
	(c)	What do you understand by looping? Explain different types of loops in C with example and compare them. ***********************************	07	