C	E 1 AN
Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-1 $^{\rm st}$ / 2 $^{\rm nd}$ (SPFU) EXAMINATION- WINTER 2015

-		Code: CPU001		06/01/2016
		Name: Computer Programmi	_	
		:30pm to 05:00pm	Total	l Marks: 70
Instru	iction 1.	s: Question No. 1 is compulsory. Attem	nt any four out of romaining o	riv quastians
		Make suitable assumptions wherever		ax questions.
		Figures to the right indicate full mark		
				Mark
Q.1		Objective Question (MCQ)		Mark
	(a)			07
	1.	Full form of ALU is:		
		= = = = = = = = = = = = = = = = = = = =	b) Arithmetic & Logic Unit	
		` '	d) None of Above	
	2.	Which is a System Software?		
			b) Library Management Syst	em
	•	(c) Student Management System (, •	
	3.	Diamond Shape Symbol is used to	-	art.
			o) Stop d) Decision	
	4.	(c) Input / Output (d) Which Memory is Volatile?	1) Decision	
	→.	<u> </u>	b) Secondary Memory	
		· · ·	d) None of Above	
	5.	Which operator is used to find rem		
	٥.	(a) * (b) / (c) -	(d) %	
	6.	What is the symbol for Logical OF	` /	
		(a) != (b) & (c) &&	*	
	7.	Which statement does not belong t	* * * * * * * * * * * * * * * * * * * *	?
		(a) if (b) default	<u> </u>	
		(c) switch (d) break		
	(b)	- H.O. O.		07
	1.	Full form of RAM is:		
		(a) Random Access Memory		dule
	•	(c) Remote Access Machine	(d) Read Access Memory	
	2.	In SwitchCase, it is written after (a) break (b) conti	•	
		(c) goto (d) defau		
	3.	Which declaration of array is corre		
	٥.	(a) int a(10); (b) int a(
		(c) int a[10]; (d) int [1		
	4.	For declaration of a pointer variable		
		(a) * (b) ->	,	
		(c) . (d) &		
	5.	A pointer value refers to:		
		(a) A float value	(b) An integer constant	
		(c) Any valid address in memory	(d) None of the above	
	6.	The statement exch(&x, &y); is:		
		(a) Definition	(b) call by value	
		(c) call by reference	(d) declaration	
	7.	Following is an example of user de		
		a) printf (b) scanf (c)	test (d) main	

Q.2	(a) (b)	Explain the use of break statement with example. Explain different operators used in C Language.	03 04
	(c)	Draw Block Diagram of Computer System and Explain its various components.	07
Q.3	(a)	Explain scanf() and printf() with syntax.	03
	(b)	Explain different datatypes used in C Language.	04
	(c)	What is flowchart? Draw a Flowchart to find the largest of three numbers A,B, and C.	07
Q.4	(a)	Explain Local Variable Vs Global Variable using example.	03
	(b)	What is Array? Explain single and multi-dimensional array with example.	04
	(c)	Explain the multiple (ladder) if-else with syntax and proper example.	07
Q.5	(a)	Describe following string functions in C-Language.	03
		(1) strcpy() (2) strcat() (3) strlen() (4) strcmp()	
	(b)	Explain the ?: (ternary) and size of operators with proper examples.	04
	(c)	Print the following pattern:	07
		1 1 3	
		135	
		1357	
		1 3 5 7 9	
Q.6	(a)	Show the use of the malloc() function with proper example.	03
	(b)	What is structure? Define the structure and explain how to access the structure members.	04
	(c)	What is function? Explain the function definition, function	07
	(0)	prototype and function call with example.	07
Q.7	(a)	What is pointer? Clear it with examples and give its use.	03
	(b)	Compare Static Memory Allocation Vs. Dynamic Memory	04
	(c)	Allocation. What is file management? List the different file management	07
	(0)	functions and explain the various file modes.	U/
