F ir	stF	Ranker.com	Enrolme	nt No	_
Subj	ect C	GUJARAT TECHNO BE - SEMESTER- I & II (NEV Code: 2110003	V) EXAMINATION - W		
Subject Name: Computer Programming And Utilization Time: 10:30 AM TO 01:00 PM Instructions:			Total Marks: 70		
	2. 1	Question No. 1 is compulsory. Atte Make suitable assumptions wherev Figures to the right indicate full ma	er necessary.	ing Six questions.	
Q.1		Objective Question (MCQ)			Marl
	(a)				07
	1.	In which of the following lang form of 0s and 1s?	guages, the instructions are	e written in the	
		(a) Programming language	(b) Machine language		
		(c) Assemble language	(d) High-level languag	e	
	2.	The statements between a funct	.,	r	
		(a) { }	(b)""		
		(c) \n	(d) /**/		
	3.	Which is a legal 'C' expression	2		
		(a) $a = [b + c];$	(b) $a = \{(b + c)\};$		
		(c) $a = (b + c);$	(d) $a = \{b^*c\};$		
	4.	What will the output of followi	ng C code be?		
		# include <stdio.h></stdio.h>			
		int main()			
		1			
		int $x = 1, y = 1, z;$			
		z = x++ +y;	A 1		
		printf ("%d, %d", x, y);	~0``		
			6		
		(a) $x = 2, y = 2$	(b) $x = 2, y = 1$		
		(c) $x = 1, y = 1$	(d) $x = 1, y = 2$		
	5.	How many operands does the c	onditional operator (?:) tak	tes?	
		(a) Four	(b) Two		
		(c) One	(d) Three		
	6.	In which of the following the lo	oop is executed at least onc	e?	
		(a) while	(b) for		
		(c) do – while	(d) if		
	7.	int $x[5] = \{3, 4, 5\}$			
		What will be the value of x[4]?			
		(a) 0	(b) 4		
		(c) 5	(d) 3		
	(b)				07
	1.	Which library function is used	to compare two strings?		
		(a) strstr ()	(b) strchr ()		
		(c) stremp ()	(d) strlen ()		
	2.	A function declaration consists mentioned?	s of four parts. Which of th	hem is wrongly	
		(a) Terminating comma	(b) Function type		
		(c) Function name	(d) Parameter list		
	3.	Which of following operators i		of the variable	
		using the pointer?	a		
		(a) *	(b) ^		



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Firstranker (a) Riggest member of the union (b) First member of union

- (c) Sum of the sizes WWW.FirstRanker.com members
- Which of the following functions is used to release allocated memory 5. which is no longer required? (a) dealloc () (b) dropmem () (c) free () (d) release ()
- Which of the following functions allocates request size of bytes and 6. returns a pointer to the first byte of allocated space? (a) calloc (b) free (c) realloc (d) malloc
- 7. Which of the following functions reads an integer from a file? (a) fseek () (b) putw () (c) fscanf () (d) getw ()
- 0.2 (a) Write an algorithm to determine whether the given year is a leap year or 03 not.
 - (b) What is a flow chart? How is it different from an algorithm? 04 07
 - (c) What is various types of operator available in C.
- (a) State the difference between entry control loop and exit control loop. 03 Q.3
 - (b) What is difference between keywords and identifiers? Explain rules for 04 naming an identifier. 07
 - Write a program that reads a value n and generates the following pattern: (c)
 - 1 123
 - 12345
 - 1234567
 - 123456789

Q.4 (a) Distinguish between the following pairs:

- 1) getchar and scanf functions
- %s and %c specifications for reading.
- %s and %[] specifications for reading.
- (b) Explain putchar() and puts() functions with suitable example. 04 (c) Write a program to copy one string into another and count the number of 07 characters copied. Compare for loop and while loop with illustrations. 03 0.5 (a)

03

- Describe following string functions in C Language. 04 (b) 07 strcpy(), (2) strcat(), (3) strlen(), (4) strcmp() (c) What is recursion? Write C program to find factorial (N) using recursive Function?
- (a) State difference between call by reference and call by value. 03 Q.6 (b) What is pointer? Explain Array of pointer with example. 04 (c) Write a function which accepts a string and returns the length of the string. 07
- (a) State difference between Union and Structure. 03 0.7 (b) Explain getw() and putw() function with example. 04 (c) What is file management? List the different file-management functions. 07 Explain the various file modes.
