## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-I &II (NEW) EXAMINATION - SUMMER-2019

Subj	ect (	Code: 2110003	Date: 10/06/2019	
Subj	ect ]	Name: Computer Programming a	nd Utilization	
		:30 AM TO 01:00 PM	Total Marks: 70	
Instru	ıction	s:		
	1.	Question No.1 is compulsory. Attempt any		
		Make suitable assumptions wherever nece	essary.	
	3.	Figures to the right indicate full marks.		
Q.1			Mark	
	(a)	Objective Question (MCQ)	07	
	1.	Which is output device?	<b>V</b> ,	
		(a) Barcode Reader	(c) Scanner	
		(b) LCD	(d) Keypad	
	2.	C-Language is		
		(a) Machine Dependent	(c) Machine Independent	
		(b) Partially Machine Dependent	(d) None of above.	
	3.	Which one of following is volatile men	nory?	
		(a) SRAM	(c) Flash	
		(b) EPROM	(d) Hard disk	
		` '		
	4.	How many times following loop will be	e rotated?	
		int $a = 10$ , $b = 1$ ; while(a>b)		
		{ a; b++; }	<b>(</b> O).	
		( a, 011, j		
		(a) 5	(c) 4	
		(b) 10	(d) 1	
	_	Jedy X J		
	5. Which of the following is correct C statement to print variable a?			
		(a) print(* a");	(c) printf("%d");	
		(b) printf("%d", a);	(d) printf("%a");	
	6.	Which one of following loop rotates in	finite time?	
		(a) for(;;)	(d) only a and c	
		(b) do { } While(1<10);	(e) all of a, b, c	
		(c) while (100)		
	7.	Switch case statement cannot be application		
		(a) int	(c) enumerated	
		(b) char	(d) float	
	. 50 250			
	<b>(b)</b>		07	
	1.	Which one is invalid variable name?	(a) anna a	
		(a) int_a	(c) case_c	
		(b) temp1	(d) 1temp	
	2.	Which one of following statement does	n't increment variable a?	
		(a) a++	(c) ++a	
		(b) $a += 1$	(d) $a = +1$	

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3.
           For following code, what should be value of X and Y?
              M = 9; N = 10;
              X = M & N;
              Y = M & N;
               (a) X = 1, Y = 8
                                                     (c) X = 1, Y = 1
               (b) X = 8, Y = 8
                                                     (d) None of above
       4.
           What is output of following program?
           void main()
              int z = 10:
              float z = 10;
              printf("%d",z);
           }
               (a) 10.00
                                                  (c) 10
                                                  (d) Run time error
               (b) Compile time error
       5.
           The Function _____ obtains block of memory run time.
               (a) malloc()
                                                  (c) calloc()
               (b) Both malloc() and calloc()
                                                  (d) free()
       6.
           Which of the following is true about FILE *fp
               (a) FILE is keyword in C for representing files and fp is variable of
                  FILE type.
               (b) FILE is a structure and fp is pointer to structure of FILE type.
               (c) FILE is stream
               (d) FILE is buffered stream
           Array and Structure contain elements of _____ and ____ data
       7.
           type respectively.
               (a) same, different
                                                  (c) same, same
               (b) different, Same
                                                  (d) different, different
           Define (1) Higher Level Language (2) Lower Level Language (3)
0.2
                                                                                      03
           Machine Level Language
           Sketch flowchart to convert seconds into hour, minute and second.
                                                                                      04
           (Hint: 3700 seconds => 1 hr, 1 minute, 40 second)
          Describe assignment, sizeof() and ternary operator with example.
                                                                                      07
      (c)
           Write C program to find area and perimeter of rectangle.
Q.3
                                                                                      03
      (b) Describe Enumurated data type with example.
                                                                                      04
           Write C program to get 20 data from user. Find sum, average, maximum
                                                                                      07
      (c)
           and minimum number.
           Write a program to add first n numbers. Get value of n from user.
0.4
      (a)
                                                                                      03
           Describe switch case statement with example.
                                                                                      04
      (b)
           Write a C program to display given pattern
                                                                                      07
      (c)
           1
           1 2
           1 2 3
           1 2 3 4
           1 2 3 4 5
```

Q.5	(a)	Describe dynamic memory allocation. Give advantages and disadvantages of it.	03			
	(b) Describe break and continue statement with suitable example.					
	(c) Write a C program to do following task.  (1) Take string from user and print in upper-case					
		(2) Find string length without using strlen() function.				
		(=) = ()				
Q.6	(a)	Give merits and demerits of Union over structure.				
•	(b)	Design structure with following elements:	04			
	(-)	Name of employ, basic, da, ta, deduction, net_salary				
		Give the variety of way to access individual elements of structure				
	(c)					
		· · · · · · · · · · · · · · · · · · ·				
Q.7	(a)	Describe following file handling functions.	03			
		(1) fopen()				
		(2) fseek()				
		(3) fgetc()				
		(0) (80:0()				
	<b>(b)</b>	Write C program to copy content of file "D:\home\avs.txt" into new text	04			
	file "ftel.txt" in E drive.					
	(c)	(c) Define Pointer. How to initialize integer pointer? Describe pointer to				
	array with example.					
		*******				
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		100 X				
		10alle				
		10 M. 70				
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