

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-I &II (NEW) EXAMINATION – SUMMER-2019****Subject Code: 2110003****Date: 10/06/2019****Subject Name: Computer Programming and Utilization****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Question No.1 is compulsory. Attempt any four out of remaining six questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1**Mark****(a) Objective Question (MCQ)****07**

1. Which is output device?

(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 memory?

(a) SRAM	(c) Flash
(b) EPROM	(d) Hard disk
4. How many times following loop will be rotated?


```
int a = 10, b = 1;
while(a>b)
{ a--; b++; }
```

(a) 5	(c) 4
(b) 10	(d) 1
5. Which of the following is correct C statement to print variable a?

(a) printf("a");	(c) printf("%d");
(b) printf("%d", a);	(d) printf("%a");
6. Which one of following loop rotates infinite 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 applicable on _____ data type.

(a) int	(c) enumerated
(b) char	(d) float

(b) Objective Question (MCQ)**07**

1. Which one is invalid variable name?

(a) int_a	(c) case_c
(b) temp1	(d) 1temp
2. Which one of following statement doesn't increment variable a?

(a) a++	(c) ++a
(b) a += 1	(d) a = +1

- Q.5** (a) Describe dynamic memory allocation. Give advantages and disadvantages of it. **03**
(b) Describe break and continue statement with suitable example. **04**
(c) Write a C program to do following task. **07**
(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. **03**
(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) Describe types of function based on arguments and return type. **07**
- Q.7** (a) Describe following file handling functions. **03**
(1) fopen()
(2) fseek()
(3) fgetc()
- (b) Write C program to copy content of file “D:\home\avs.txt” into new text file “ftel.txt” in E drive . **04**
(c) Define Pointer. How to initialize integer pointer ? Describe pointer to array with example. **07**
