ESC 101: Fundamentals of Computing			Minor Q	<b>Minor Quiz 6</b> Date: 01 – 03		3 - 2019
Name						C
Roll No.		Dept.		Section		

## Instructions:

- 1. This question paper contains a total of **1** page (**1** side of paper).
- 2. Write your name, roll number, department, and section on every side of every sheet of this booklet
- 3. Write final answers neatly with a blue/black pen in the given boxes.
- 4. Answers written outside the box will NOT be graded.

Total **10 Marks** 

**Q. 1:** Write the output of the following program in the appropriate box and answer the question. (2+2+2=6 Marks)

```
#include<stdio.h>
1
2
     void func1(int *arr){
3
          for(int i=1; i<=5;i++)
4
         (i-1)[arr] = (i\%5);
5
     void func2 (int a[1] , int arr){
6
7
          a[0] = arr + 3;
8
     }
9
    int main(){
10
      int arr[6] = \{2,2,2,2,2\};
11
      func1(arr+1);
12
      for(int i=0; i<6; i++)
          printf("%d ", i[arr] );
13
14
      printf("\n");
      func2(arr, *arr);
15
      for(int i=0; i<6; i++)
16
          printf("%d ", i[arr] );
17
18
      return 0;
19
    }
```

```
Output

212340

512340

Will the answer change if we write func2 as:

void func2 (int a[1] , int arr){
  int temp = arr + 4;
  a = &temp;
}
Explain your answer

If the response is yes/will provide segmentation fault, award 1 mark, if the
```

explanation is correct too (segmentation error happens since a[1] is unpredictable)

award 1 mark

Q. 2: Write the output of the following sequence of instructions long arr2[90]; int arr1[80], a1=(&arr2[60]), a2=(&arr2[10]), b1=(&arr1[60]), b2=(&arr1[10]); printf("%d %d", a1-a2, b1-b2); Explain your answer. (2+2 Marks)

400 200

Subtraction is of the addresses and they will count the shift of one address position in the array as one.