ESC 101: Fundamentals of Computing			Minor (Minor Quiz 5		Date: 15 – 02 - 2019	
Name						Λ	
Roll No.		Dept.		Section		H	

Instructions:

Total 10 Marks

- 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.

Q. 1: Write the output of the following program in the appropriate box.

```
#include <stdio.h>
1
2
3
   #define calc(x) (x/x)
4
5
   int func(int a, int b){
6
      static int c = 0;
7
      c += a+b;
8
      return c;
9
   }
10
11 int eval(int a, int b){
12
      if(b==1) return a-1;
13
      int half = floor(b/2);
14
15
      if(b%2)
16
        return eval(a,half)*eval(a,half)*a;
17
      else
18
        return eval(a,half)*eval(a,half);
19 }
20
21 int main()
22 {
23
      int v = 2;
24
      printf("%d\n",calc(4-8));
25
      while(v){
          printf("%d\n",func(v,v-1));
26
27
          V--;
28
      }
29
      printf("%d\n", eval(3,5));
30
31
      return 0;
32 }
```

(2+3+4+1)	=10	Marks)
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Line No.	Output		
24	-6		
25-28	3 4		
30	48		

Q. 2. How many times function call eval(3,1) will get executed after calling eval(3,5) at line 30?

4