Name: Section: Rollno:

## ESC101: Fundamentals of Computing (Minor Quiz 2)

23 August, 2016

Total Number of Pages: 4

Total Points 20

Question 1. (8 points) Consider the program given below.

```
1 #include <stdio.h>
  int main()
  {
3
            int n,n1,n2,x=0;
4
            scanf("%d %d",&n1,&n2);
5
6
            while(n1< n2)
7
            {
                     if(n1%2!=0)
8
9
                               n=n1;
10
11
                               while (n!=0)
12
                                        x = x+n\%10;
13
                                        n = n/10;
14
                               }
15
                     }
16
17
                     n1++;
18
           printf("%d\n",x);
19
            return 0;
20
21
```

What is the output of the program for the following inputs?

ame:	Section:	Rollno:
Input: 10 15 Output:	Input: 13 15 Output:	
Solution: 6	Solution: 4	
Input: 40 50 Output:	Input: 7 9 Output:	
Solution: 45	Solution: 7	

Name: Section: Rollno:

Question 2. (12 points) Consider the program given below.

```
1 #include <stdio.h>
  int main()
2
  {
3
           int x,y,z;
4
5
           scanf("%d %d %d",&x,&y,&z);
           x = x+1;
6
7
           switch(y)
           {
8
                    case 1:
9
10
                    case 3:
                    case 5:
11
12
                    case 7:
                    case 8:
13
                    case 10: if(x>31){ x = 1; y=y+1;} break;
14
                    case 4:
15
                    case 6:
16
                    case 9:
17
                    case 11: if(x>30) {x = 1; y=y+1;}
18
                               if(
                    case 2:
19
20
21
                                                (z\%400 == 0)
22
                                                (z\%4 == 0 \&\& z\%100!=0)
23
                                                )
24
                                                && x>28
25
                                       )
26
                                       || x>29|
27
                                        {y = y+1; x=1;} break;
28
                    default : if(x>31) { x=1; y=1; z=z+1;}break;
29
30
           printf("%d %d %d\n",x,y,z);
31
           return 0;
32
33
```

What is the output of the program for the following inputs?

 Name:
 Section:
 Rollno:

 Input: 28 2 2016
 Input: 29 11 2013

 Output:
 Output:

 Solution: 1 3 2016
 Solution: 1 12 2013

 Input: 31 12 2016
 Input: 29 4 2017

 Output:
 Output:

 Solution: 1 1 2017
 Solution: 1 5 2017