

Name:

Roll No:
e.g. 170001

Dept.:
e.g. AE

Sect.:
e.g. A1

IIT Kanpur
ESC101 Fundam. of Comp.

Minor Quiz 2B

Date: January 23, 2018

Instructions:

Total: 10 marks

1. Write final answers **neatly with a pen**.
2. Do not give derivations/elaborate steps unless the question specifically asks you to provide these.

Problem 1 (3 + 3 + 4 marks). Give your answers in the space provided only.

1. The input to the following program is 8. In the space given, write down the output of the program.

```
1 #include <stdio.h>
2 int main () {
3     int a = 3;
4     a = a+1;
5     int b = 6;
6     // scanf("%d",&b);
7     printf("a is %d\n",a);
8     printf("b is %d\n",b);
9     printf("c is %d\n",b%a);
10    return 0;
11 }
```

```
1 a is 4
2 b is 6
3 c is 2
```

2. In the space given, write down the output of the program given below.

```
1 #include <stdio.h>
2 int main () {
3     float f = 3;
4     printf("sum is %.2f\n",f+2);
5     printf("eval is %d\n", 4<3);
6     printf("bool is %d\n", 1 && 1!=3);
7     return 0;
8 }
```

```
1 sum is 5.00
2 eval is 0
3 bool is 1
```

3. The input to the following program is 2. In the space given, write down the output of the program.

```
1 #include <stdio.h>
2 int main () {
3     int a = 3;
4     int b = 5;
5     float c = 5.3;
6     scanf("%d",&a);/*
7     c = c + 1;*/
8     printf("a is %d\n",a);
9     printf("b is %d\n",b/a);
10    printf("bool is %d\n",b!=a);
11    printf("c is %d\n",c>=6);
12    return 0;
13 }
```

```
1 a is 2
2 b is 2
3 bool is 1
4 c is 0
```