

Name:

Roll No:  
e.g. 170001

Dept.:  
e.g. AE

Sect.:  
e.g. A1

IIT Kanpur  
ESC101 Fundam. of Comp.

Minor Quiz 1A

Date: January 16, 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. In the space given, write down the output of the program given below.

```
1 # include <stdio.h>
2 int main () {
3     int a = 20;
4     int b = 30;
5     int c = 40;
6     printf("a + b is %d\n", a+b);
7     printf("c is %d\n", c);
8     c = a + b;
9     printf("c is %d\n", c);
10    return 0;
11 }
```

```
1 a + b is 50
2 c is 40
3 c is 50
```

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

```
1 # include <stdio.h>
2 int main () {
3     char old = 't';
4     char n = old - 'a' + 'A';
5     char digit = '5';
6     int newDigit = digit - '0';
7     printf("new is %c\n", n);
8     printf("digit is %c\n", digit);
9     printf("newDigit is %d\n", newDigit);
10    ;
11    return 0;
12 }
```

```
1 new is T
2 digit is 5
3 newDigit is 5
```

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

```
1 # include <stdio.h>
2 int main () {
3     printf("2 + 3 ");
4     printf("= 5\n");
5     printf("hello\nworld\n");
6     printf("hello world\n");
7     return 0;
8 }
```

```
1 2 + 3 = 5
2 hello
3 world
4 hello world
```