CS0.101: Computer Programming (Section A)

Quiz 1 (Fall 2023) Duration: 45 mins

Question 1: (5 marks)

Write a program to find the factorial of a number. Here n can be taken to be an input from the user.

Question 2: (5 marks)

What is type-casting? Explain the types of type casting in C.

Question 3: (5 marks)

Write -35 in 2's complement form (assume 8-bit representation).

Question 5: (4 marks)

State True/False with justification: Given two positive integers x and y, it is not possible to calculate the minimum and maximum of the two numbers without using any conditions or loops.

Question 6: (10 marks)

Write a program to print the following pattern of the Pascal's triangle.

Question 6:

What is output of the following programs with proper justification?

```
1. (5 marks)
    #include<stdio.h>
    int main()
    int x=5, y, z;
    y = x ++;
    z = x - -;
    printf("%d%d%d\n", x, y, z);
    return 0;
 2.) (5 marks)
    #include<stdio.h>
    int main()
    int a = 3;
    a = (a++) + \sim (++a);
printf("%d", a);
    return 0;
    (5 marks)
    #include<stdio.h>
    int main()
    int i = 21 > 5 > 3 < 4;
    printf("%d", i);
    return 0;
4. (5 marks)
    #include<stdio.h>
    int main()
    int y;
    printf("%d", scanf("%d", &y));
    /* Suppose that input value given for above scanf is 2023*/
    return 0;
```