Names:

Email:

- 1. Fill in the blank spaces (2):
  - a. In C++ system, a(n) <u>preprocessor</u> program executes before the compiler's translation phase begins.
  - b. The <u>loader</u> transfers the executable image of a C++ program from disk to memory.
- 2. Write the outputs of the following code (8)

## Answer: Output: 2, 6, 14

```
int sum = 0; int i = 1, j = 1;
while (i = 5){
    sum = sum + i;
    if (sum == 20) break;
        j++;
}
printf( "%d, %d", i, j);
```

## Answer: Output: 5, 4

(d) Consider the condition shown below. For what values of x and y will the values of z be as follows (state your answer in the back of the paper):

```
i. z = 10 Answer: for x = 5 and any value of y Answer: for x = 5 and any value of y Condition: ((x == 5 \mid | 7 < y \&\& (100 - 2*50))?z = 10: z = 20)
```