CISS240: Introduction to Programming
Quiz q0702

Name: _____ Score: ____

This is a closed-book, no C++ compiler, 4-minute quiz.

Q1. What is the output of the following code fragment? The repeating chunk of code appears 10 times; only 3 are shown below.

```
int s = 0;
int i = 0;

if (i % 2 == 1)
{
    s = s + i;
}
i = i + 1

if (i % 2 == 1)
{
    s = s + i;
}
i = i + 1

if (i % 2 == 1)
{
    s = s + i;
}
i = i + 1

... etc ...

std::cout << s << '\n';
```

Answer:

Q2. Complete the initialization of `i` so that the following program prints a random integer in the range of 50 to 60 (inclusive):

```
#include <iostream>
#include <cstdlib>
#include <ctime>

int main()
{
    srand((unsigned int) time(NULL));
    int i = ________________________;
    st::cout << i << '\n';
    return 0;
}
```

Answer:

```
int i =               ;
```

Q3. Complete the following program so that it prints a random double in the range of -1.0 to 3.0 (inclusive):

```
#include <iostream>
#include <cstdlib>
#include <ctime>

int main()
{
    srand((unsigned int) time(NULL));
    double x = ________________________;
    st::cout << x << '\n';
    return 0;
}
```

Answer:

```
double x =               ;
```

Q4. Complete the following program so that it prints a random integer from the follow: 1, 2, 3, 4, 5, 20, 21, 22, 23, 24.

```
#include <iostream>
#include <cstdlib>
#include <ctime>

int main()
{
    srand((unsigned int) time(NULL));
    int i = ________________________;
    // write an if statement
    st::cout << x << '\n';
    return 0;
}
```

Answer:

```
int i =       ;
if ()
{
}
```

(HINT: Generate a random integer 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and put it in `i`. If `i` is 6, 7, 8, 9, 10, do something to `i`.)