Programming Unit 3 review ANSWERS Name:

What will the output of this expression be if the variable x = 13?

if (x < 12) {

 System.out.println(“The number was too low”);

}

1. “The number was too low”
2. X = 13
3. X < 12
4. The number was too low
5. Nothing will happen

The Java if statement

1. Evaluates whether an expression is equal or not
2. Evaluates whether an expression is true or false
3. Evaluates whether an expression is less than or more than a number
4. Evaluates whether a String object contains certain letters or not

Give the meaning of each of the following Java operators:

1. ++ \_increment (increase) by one
2. && \_represents the logical “and” in an expression
3. != \_represents the comparison “is not equal to” in an expression
4. || \_represents the logical “or” in an expression

Conside the following code that will assign a letter grade of ‘A’, ‘B’, ‘C’, or ‘F’ depending on a student’s test score.

if (score >=90)

 grade = ‘A’;

if (score >=80)

 grade = ‘B’;

if (score >=70)

 grade = ‘C’;

if (score >=60)

 grade = ‘D’;

else

 grade= ‘F’;

1. This code will work correctly in all cases
2. This code will work correctly only if grade >=60
3. This code will work correctly only if grade < 60
4. This code will work correctly only if grade < 70
5. This code will not work correctly under any circumstance

If x is an int where x = 0, what will x be after the following loop terminates?

while (x < 100)

 X \*= 2;

1. 2
2. 64
3. 100
4. 128
5. None of the above since this is an infinite loop

Given the following code, where x = 0, what is the resulting value of x after the for-loop terminates?

for (int i= 0; i < 5; i++)

 x = x + I;

1. 0
2. 4
3. 5
4. 10
5. 15

Given that s is a String, what does the following loop do?

for (int j = s.length( ); j > 0; j --)

 System.out.print( s.charAt( j – 1) );

1. It prints s out backwards
2. It prints s out forwards
3. It prints s out backwards after skipping the last character
4. It prints s out backwards but does not print the 0th character