**Answer the following questions**

* **Write Java statements to do the following**
* Declare two integers variables (named volume and area) and initialize them to zero?
* Declare constant for Acceleration of gravity which has the value 9.8
* **State the order of evaluation of the operators in each of the following JAVA statements and show the value of x after each statement is performed**
	+ x = ( 3 \* 9 \* ( 3 + ( 9 \* 3 / ( 1+2 ) ) ) );
	+ x = ( 3 \* 9 \* ( 3 + 9 \* 3 / ( 1+2 ) ) );
	+ x = 3 \* 9 \* 3 + 9 \* 3 / ( 1+2 ) ;
	+ x = 3 \* 9 \* 3 + 9 \* 3 / 1+2;
* **Where possible, write equivalents for the following statements using compound assignment operators:**
* r = r / 10;
* z = z \* x + 1;
* q = q + r \* m;
* Assume the following:

int j = 6; int k = 10; int n; bool b = false;

**Give the value that is assigned, or illegal.**

|  |  |  |
| --- | --- | --- |
| n = k++;  | n = k++ + ++j;  | 3 = 4; |
| n = ++k; | n = k+++++j;  | n = 7++; |

* **Multiple choice**
1. Which of the following is legal string assignment

a- name = 'Majed'

b- name = "Majed"

c- Name = 'Á' +"Majed"

1. Which of the following can be assigned to a char variable

a- 'd'

b- '2'

c- '#'

1. Which assignment statement could be used to store the letter B into the char

variable aVariable

a- aVariable = "B" ;

b- aVariable = B ;

c- aVariable = 'B' ;

1. Which of the following prints AssalamouAlaikoum on one output line

 a- System.out.println("Assalamou" );

System.out.println("Alaikoum" );

b- System.out.print("Assalamou") ;

System.out.println("Alaikoum");

c- System.out.println("AssalamouAlaikoum");

1. Given that x is a double variable and num is an int variable containing the value 5,

what will x contain after execution of the following statement:

x= num + 2;

a- 7

b- 7.0

c- 5

d- 5.0

e- Nothing, a compile-time error occurs

1. Given that x is a double variable containing the value 84.7 and num is an int

variable, what will num contain after execution of the following statement

num = x + 2;

a- 86.7

b- 86

c- 87

d- 87.0

e- Nothing, a compile-time error occurs

1. Given that x is a double variable and num is an int variable containing the value

38, what will x contain after execution of the following statement:

x= num / 4 +3.0;

a- 12.5

b- 3

c- 12

d- 12.0

e- Nothing, a compile-time error occurs

* **What is the output of the following program fragment**
* Age = 29;

System.out.println("Are you"+ age+ "years old?") ;

 int a = 20;

 int b = 10;

 int c = 15;

 int d = 5;

 int e;

 e = (a + b) \* c / d;

 System.out.println( "Value of (a + b) \* c / d is :"+ e ) ;

 e = ((a + b) \* c) / d;

 System.out.println( "Value of ((a + b) \* c) / d is :"+ e ) ;

 e = (a + b) \* (c / d);

 System.out.println("Value of (a + b) \* (c / d) is :" + e ) ;

 e = a + (b \* c) / d;

 System.out.println( "Value of a + (b \* c) / d is :" + e ) ;