**Question 11**

If the double variables x = 2.5 and y = 4.0, what is the value of z after this statement is executed?

int z = (int) x + (int) y;

a. 6

b. 6.5

c. 7

d. 6.0

**Solution: A**

Type casting of double to integers it will take only integer part but not decimal part

(int)x = 2

(int)y=4

(int)x + (int)y = 2+4 = 6

But not 6.0 because z is integer

**Question 12**

Which of the following is not a binary operator?

a. +

b. ++

c. %

d. /

**Solution: B**

+ is binary operator to find sum of two numbers like 1+2

% is binary operator to find reminder on division like 1%2

/ is binary operator to find division of two numbers like 4/2

But ++ is not a binary operator but it is a unary operator called as increment operator

**Question 13**

Which of the following statements calculates the change in sales between two double variables named this YTDSales and lastYTDSales, rounds the result to an integer, and stores it in an integer in an int variable named salesChange?

a. int salesChange = Math.round(thisYTDSales - lastYTDSales);

b. int salesChange = Math.round(thisYTDSales - lastYTDSales, 0);

c. int salesChange = (int) thisYTDSales - (int) lastYTDSales;

d. int salesChange = (int)(thisYTDSales - lastYTDSales);

**Solution: A**

First we need to find the difference between thisYTDSales and lastYTDSales

And then apply Math.round()

Here we are storing result in an integer so it will be an integer automatically

**Question 14**

If the int variables a = 5, b = 2, and c = 10, what is the value of c after the following statement is executed? c = c + a \* b – 5;

a. -45

b. 15

c. 25

d. None of the above

**Solution: B**

\* Has highest precedence than +,- so it will be evaluated first

a\*b= 5\*2=10

now c = c + 10 -5

Now + , - has same precedence but left associative i.e. left operator will be evaluated first

c + 10 = 10+10 = 20

now c = 20 - 5 =15

**Question 15**

Unlike an if/else statement, a switch statement

a. can’t test for a default condition

b. can’t perform an operation based on the result of a Boolean expression

c. can’t be nested within another switch statement

**Solution: B**

Switch statement can’t perform an operation based on the result of a Boolean expression