A -

1. What is the Common Type System?  
2. Can a value type be **null**?  
3. Can you use uninitialized variables in C#? Why?  
4. Can there be loss of data as a result of an implicit conversion?

B -

**Exercise 1**

Create an enumerated type for representing different  
types of bank accounts (checking and savings). You will create two variables by using this **enum** type, and set the values of the variables to Checking and Deposit. You will then print the values of the variables by using the **System.Console.WriteLine** function

**Exercise 2**

Define a **struct** that can be used to represent a bank  
account. You will use variables to hold the account number (a **long**), the account balance (a **decimal**), and the account type (the **enum** that you created in Exercise 1). You will create a **struct** type variable, populate the **struct** with  
some sample data, and print the result.

**Exercise 3**

You will modify the code written in Exercise 2. You will prompt the user to enter the account number, type and balance. You will use these data to print the account summary.

C -

Read the code, and then answer the following question:

int x = 10;  
int y = x++;

What is the value of y? Why?

Read the following code, which is continued from the preceding step:

x+= 10;

What is the value of x? Why?

Read the following code, which is continued from the preceding step:

int z = 30;  
int a = x + y \* z;

What is the value of a? Why? Write this in a more readable form.

Read the following code, which is continued from the preceding step:

int a = 10;  
int b = a++;  
bool myBool = ( a == b );

What does this code do? What is the value of myBool?

D –

**1**. What symbol indicates a single-line comment in your code?   
**2**. True or false:

You end a statement with a closing brace and a semicolon.  
**3**. What is the largest value that can fit in a byte?  
**4**. In the following expression, what is the value of y?  
int x = 50;  
int y =  
++x;  
**5**. Fill in the blank:

A \_\_\_\_\_\_\_\_\_\_\_\_ statement allows you to control the flow of your application by  
selecting the statement that is executed, based on the value of a Boolean expression.  
**6**. True or False: The while loop is a pre-test loop.