**Question 12 pts**

Which one of the following statements is correct?

Group of answer choices



The default value of numeric array elements is zero.



The rank of an Array is the total number of elements it can contain.



The default value of numeric array elements is zero.



The length of an Array is the number of dimensions in the Array.



Array elements can be of integer type only.

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**Question 22 pts**

If a is an array of 5 integers then which of the following is the correct way to increase its size to 10 elements?

Group of answer choices



int[] a = new int[5]; a.Length = 10 ;



int[] a = new int[5]; a = new int[10];



int[] a = new int[5]; int[] a = new int[10];



int[] a = new int[5]; a.GetUpperBound(10);



int[] a = int[5]; int[] a = int[10];

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**Question 32 pts**

Which of the following statements is correct?

Group of answer choices



Destructors are used with classes as well as structures.



A class can have more than one destructor.



A constructor can be used to set default values and limit instantiation.



C# provides a copy constructor.

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**Question 42 pts**

Which of the following ways to create an object of the Sample class given below will work correctly?

class Sample  
{ int i;  
Single j;  
double k;  
public Sample (int ii, Single jj, double kk)  
{  
i = ii;  
j = jj;  
k = kk;  
}  
}

Group of answer choices



Sample s1 = new Sample(10);



Sample s1 = new Sample(, , 2.5);



Sample s1 = new Sample();



Sample s2 = new Sample(10, 1.2f);



Sample s3 = new Sample(10, 1.2f, 2.4);

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**Question 52 pts**

Which of the following is an 8-byte Integer?

Group of answer choices



Long



Byte



Char



Short



Integer

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**Question 62 pts**

Which of the following is the correct way to define a variable of the type struct Emp declared below?

struct Emp  
{  
private String name;  
private int age;  
private Single sal;  
}  
1. Emp e(); e = new Emp();  
2. Emp e = new Emp;  
3. Emp e; e = new Emp;  
4. Emp e = new Emp();  
5. Emp e;

Group of answer choices



2,5



1,3



1,2,4



4,5

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**Question 72 pts**

If a namespace is present in a library then which of the following is the correct way to use the elements of the namespace?

Group of answer choices



Install the namespace in Global Assembly Cache. Use the elements of the namespace.



Add Reference of the namespace. Import the namespace. Use the elements of the namespace.



Copy the library in the same directory as the project that is trying to use it. Use the elements of the namespace.



Import the namespace. Use the elements of the namespace.



Add Reference of the namespace. Use the elements of the namespace

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**Question 82 pts**

How many Bytes are stored by ‘Long’ Datatype in C# .net?

Group of answer choices



2



8



1



4

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**Question 92 pts**

Arrange the following datatype in order of increasing magnitude sbyte, short, long, int.

Group of answer choices



sbyte < short < int < long



short < int < sbyte < long



long < short < int < sbyte



short < sbyte < int < long

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**Question 103 pts**

Correct Set of Code for given data ‘a’ and ‘b’ to print output for ‘c’ as 74 ? (

Group of answer choices



int a = 12; float b = 6.2f; int c; c = a / b + a \* b; Console.WriteLine(c);



int a = 12; float b = 6.2f; int c; c = a / convert.ToInt32(b) + a \* convert.ToInt32(b); Console.WriteLine(c);



int a = 12; float b = 6.2f; int c; c = a / convert.ToInt32(b) + a \* b; Console.WriteLine(c);



int a = 12; float b = 6.2f; int c; c = convert.ToInt32(a / b + a \* b); Console.WriteLine(c);

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**Question 112 pts**

In your own words, describe what a statement is in C#?

Statements are the actions that a program expresses. Common actions would include declaring variables, calling methods, assigning values and looping though collections. Statements consist of single lines of code that end in a semicolon or in blocks.

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**Question 124 pts**

List 4 rules to keep in mind when naming variables

1 Variables can only consist of Letters, digits and underscores.

2 There is no limit to the length of a variable name, but you can come across problems if they are to long.

3 The first letter of a variable should be a letter or an underscore.

4 You can not use keywords to declare variables

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**Question 132 pts**

In your own words, describe what a method is in C#?

A method is a block of code which only runs when its called. Data can be passed into a method by using parameters. Methods also known as functions are used to preform certain actions in the code.

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**Question 144 pts**

In your own words, explain what method overloading is in C#?

Method Overloading is the common way of implementing polymorphism. It is the ability to redefine a function in more than one form. Users can implement Function overloading by defining two or more functions in a class with the same name.

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**Question 152 pts**

In your own words, explain what an optional parameter is in C#?

A method that contains optional parameters is not required to pass arguments at calling time. It means we call method without passing the arguments. The optional parameter contains a default value in function definition. If we do not pass optional argument value at calling time, the default value is used.

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**Question 162 pts**

What does it mean when C# is talking about short-circuiting of logical operators?

Short-circuit is a tricky method for evaluating logical operators AND and OR. In this method, the whole expression can be evaluated to true or false without evaluating all sub expressions.

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**Question 1712 pts**

List 4 and explain types of looping statements in C#.

1. While loop : It repeats a statement or a group of statements while a given condition is true.

2. For loop : It Executes a sequence of statements multiple times and abbreviates the code that manages the loop variable.

3. Do... While loop :  It is similar to a while statement, except that it tests the condition at the end of the loop body

4. Nested loop : You can use one or more loop inside any another while, for or do... While loop.

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**Question 182 pts**

Explain the difference between the while and do while loops in C#.

The while loop checks the condition at the starting of the loop and if the condition is satisfied statement inside the loop, is executed.

As against, in the do-while loop, the condition is checked after the execution of all statements in the body of the loop.

# 19

Using visual studio (C#)  create a program, name it ***PRGYOURNAMEFA1,*** that implements a search and replace function recursively. Your program should allow a user to enter***a string*** , ***a substring*** to be replaced in the entered string and a ***character/s*** to replace ***the found substring***  
***Program Structure***  
1. A main class that implements the logic of the program – name this class ***TestSearchReplace***  
2. Add a class named ***SearchReplace*** to the main class with two methods, including:  
a. ***SearchSubstring()***- return method  
b. ***ReplaceSubString()*** - void method

The two method should be called using an object in the main class. ***DONT CREATE  THE TWO METHODS IN THE MAIN CLASS***  
***Sample Output***

***Marks allocation***

|  |  |
| --- | --- |
| ***Criteria*** |  |
| Create a program, name  ***PRGYOURNAMEFA1,*** | 5 Marks |
| With two separate class  ***TestSearchReplace*** ***SearchReplace*** | 10 |
| Correct variable declaration with correct data type  in class ***SearchReplace***  ·        ***a string*** ,  ·        ***a substring***  ·       ***a character/s*** | 4 |
| Correct method in class ***SearchReplace***  a. ***SearchSubstring()***- return method b. ***ReplaceSubString()*** - void method | 20 |
| The two method should be called using an object from the main class while in ***SearchReplace class*** | 5 |
| Correct output – as shown in the formative | 5 |
| Total | 49 |