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Question Bank -MS .NET

- 1. What is a computer? (See "Programming Languages.")
- 2. Name Three Advantages of C# over other programming languages. (See " Enter c#.")
- 3. What is a comment (to a programmer) & what is it Used For / (See "A Review of the Program.")
- 4. What does the WriteLine() command do? What is the difference between Write () and WriteLine()? (See "The Fahrenheit to Celsius Conversion Program.")
- 5. What is the Potential problem using an integer variable when converting a Farhrenheit temperature in Celsius? (See "Demonstrating the Limitations common to all integer types.")
- 6. What one absolute statements can you make about all C# expressions? (See "Numeric Constants.")
- 7. Can one type of variable be converted be converted into another? How? (See " Changing Types")
- 8. What control command is optional on the end of an if Statement? (See "Making Decisions in the World.")
- 9. From a programmer's perspective, what are the positive and negative effects of indenting embedded clauses? (See "Indenting code for readability.")
- 10. What is a Boolean? What are the legal values of a bool variable? Name tow operators that are legal for bool variable. (See "Performing Boolean Arithmetic.")
- 11. Why do int variable name in this book start with an "n"/ (see the Variable naming" sidebar.)
- 12. Name the Loops that can be used in c# Programming? (See Looping Commands")
- 13. What are the two special controls that can be used in loops? What are they used for/ (See "Special Controls.")
- 14. What do we mean by the scope of variable? (See "Scope Rules")
- 15. What is the most common of all looping constructs? (See "The for loop.")
- 16. When n starts out as 5, what is the value of n++? (See "why have an increment operator, and why two of them?")
- 17. Consider the following declaration (See "The Fixed-value array"):
 - a. How many elements are in nArray?
 - b. What is the index of the first elements in nArray?
 - c. What is the index of the last elements in nArray?
- 18. What is the advantage of the foreach control over the for control when iterating throught arrays? (See "One last Looping Command: for each.")
- 19. In what way is a class semantically similar to an array? What is the primary difference? (See the first paragraph in " Defining a class.")
- 20. Define a class pool containing an int element nDepth and a double element dAea. (See Defining Class.")
- 21. Declare a Pool object and assign it to the reference variable pool1. (See "Creating an Object.")
- 22. Set the depth of the Pool object to 2 and the surface area to 50. (Don't worry about the units of length or area.)
- 23. Create a second reference called pool2 that refer to the same Pool object as pool1.
- 24. Declare a function max () that take no arguments and returns nothing (See " Defining and Using a Function.")
- 25. Define a function max () that accept two int variable as its arguments.(See "Passing multiple arguments to functions.")
- 26. Defrine a functions max () that accepts two int varbles as its argument and that returns an int. (See "Returning Values from a Function.")
- 27. What is a method?
- 28. using the Pool class the quiz in Session 7, how would a method MaxDepth (), which accepts another Pool object and returns the maximum depth, be declared?
- 29. What would be the full name of the MaxDepth () function? (See " Expanding a Function's Full Name.")
- 30. What is this ? (See "The this reference")
- 31. Consider the two method (see "The this reference"):
 public class MyClass
 {
 int nValue;
 public int RetValuel()
 {
 return nValue
 }

public int RetValue2()

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```
return this.nvalue;
}

Is there any difference between the tow methods?
```

- 32. What is the difference between an instance member and a class member?
- 33. What keyword is used to declare a class member? (See "Class Members")
- 34. What keyword is used to declare a class member? (See " Creating a class member.")
- 35. What is the class type of my name?(See "Operating on a String")
- 36. What would the call string. Compare ("mystring", "mystring") return?(See "Manipulating a string as an object.")
- 37. What are the Trim () and Pad Method used for? (See Using the Concatenate methods.")
- 38. What are the String. Format () controls used for? (See "String Format Controls.")
- 39. What is the purpose of the length property? (See "Review of Simple Arrays")
- 40. What is the type of an array of int object? (See the function InitArray () in the "Passing an Array to a Function" section)
- 41. What is the purpose of the array of strings passed to Main ()? (See " Passing an Array to a Function.")
- 42. How can a DOS program be executed under windows? (See "Executing a Command line program from a command prompt window.")
- 43. What is a jagged matrix (See The jagged matrix.")
- 44. Describe the difference between the way in which the objected programmer and the functional programmer see the world. (See "Functional nachos.")
- 45. Why use the object-oriented programming technique? (See "Why classify Objects in Software?")
- 46. Why do I say that Saving Account is a type of BankAccounts? (See "The IS A relationship.")
- 47. What is the relations between a TV and a picture tube? (See" When to IS A and When to HAS A.")
- 48. What is the is command for? (See "Avoiding invalid conversion using the is keywords.")
- 49. What is polymorphism? (See the introduction to this session)
- 50. How do you hide a base class member? (See hiding Base class Methods in the Subclass.")
- 51. How do you access a hidden member from within the class? (See "Accessing a hidden method from another class.")
- 52. How do you access a hidden member form another class? (See " Accessing a hidden method from another class.")
- 53. What is the purpose of the abstract keyword? (See "The Abstract BankAccount.")
- 54. What is the overriding property of an abstract class? (See "The Anstract BankAccount.")
- 55. What is a property?
- 56. What is another name for a static member? Why? (See "Static Properties)
- 57. What is virtual property? (See "Virtual properties.")
- 58. What is a constructor used for? (See "The C#-Provided Constructor.")
- 59. What is the default constructor? (See "The Default Constructor.")
- 60. How do your initialize an object with an external Init function? (See "Initializing an Object Using an External Init Function.")
- 61. How do your initialize an object with an internal Init function? (See "Initializing an Object Using an External Init Function.")
- 62. How do you get an object to initialize itself? (See "Initializing an object Directly.")
- 63. How can a single class have more than one constructor? How does the program differentiate among constructors? (See "Multiple Constructors.")
- 64. Why do such a thing? (See "Multiple Constructors.")
- 65. How do you avoid duplication in constructors? (See "Avoiding Duplication Among Constructors.")
- 66. Are constructors inherited? (See "Invoking the Default Base Class Constructor.")
- 67. How do you pass arguments to the base class constructor? (See "Passing Arguments to the Base Class Constructor.")
- 68. What is the destructor? (See "The Destructor"
- 69. Why divide a program into more than one file? (See the introductory paragraphs.)
- 70. What is a namespace? (See "Declaring a namespace.")
- 71. What are the five access control keywords? (See "Namespaces and Class Access.")
- 72. Why do we need error handling? (See "Why do you Need a New Error Mechanism?")

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- 73. What new mechanism does C# introduce for error handling? (See " Demonstrating the exception mechanism.")
- 74. How can we extent the exception class? (See "Extending the Exception class.")
- 75. How can we use multiple catch blocks for handling? (See "Multiple catch blocks.")
- 76. What are the key elements of an exception handler? (See "Multiple catch blocks.")
- 77. What are cascading exceptions? (See Cascading exceptions.")
- 78. What is the difference between a reference type and a value type?(See " Declaring a C# struct.")
- 79. What is meant by unifying types and how is boxing involved? (See "unified Type System.")
- 80. What is the CAN_BE_USED_AS relationship? How does it differ from the IS_A relationship? (See . "The Interface.")
- 81. What is an interface? (See "Examining an Interface.")
- 82. What are predefined interfaces? (See "Predefined interfaces.")
- 83. What is an abstract interface? (See " Abstract Interface.")
- 84. What is a delegate? (See the introduction to this session.)
- 85. What is a callback function? (See the "Why bother?" Sidebar.)
- 86. What is a disadvantage of an array? (See "Some advantage and disadvantage of the array.")
- 87. Name an alternative collection that does not suffer from the disadvantage of an array (it may carry its own disadvantages).(See the section after" some advantages and disadvantage of the array.")
- 88. Name a third of collection.(See "Other collection types.")
- 89. What is an indexer? (See "Indexers")