Sample Mid-term Exam Part I (Closed book, closed notes, no electronic devices)

1. Using the object-oriented approach, objects can be grouped together with all other objects that have the same characteristics and methods. The general term for a collection of objects is known as a ____________.

2. .NET supports a feature where an application may be written using more than one language. This feature is called ____________.

3. What is abstraction?

4. The entry point for any C# program is a method called ________________.

5. What symbol is used to mark the end of a program?

6. What are three types of identifiers?

7. What is the sequence for a .NET file to execute?

8. What is a garbage collector? Where is it found in the .NET Framework?

9. What is a directive?

10. Write the statement to declare a value in memory that cannot be changed. Use the circumference of the earth (25,000 miles) to create this statement.

11. The purpose of a constructor is to _________________.
12. Define a private method (header only) that will return the grand total of all single items brought into the method each time it is invoked

13. “MessageBox .Show” method works with the class MessageBox rather than an object instantiated from the MessageBox class because the modifier ___________ was used when defining the method.

14. The keyword used when a method does not return a value is called ___________

15. What’s the relationship between a parameter and an argument?

16. Methods that do not require object instantiation are known as ___________ methods.

17. The three parts to any class/object are a) ______________; b) ___________; c) ____________.

18. What part of a property definition is used to assign a value to the property?

19. What part of a property definition is used to retrieve a value from a property?

20. What is an example of encapsulation?

21. What are the three program control structures?

22. Using the following code, what happens when an “A” is assigned to a student?

   Answer: _____________________________________________________________________

   if
   {
   (scoreValue > 89);
   gradeValue = ‘A’;
   textBoxFeedback.text = “Excellent”;
   }

23. Which variable value will be used if aValue is NOT greater than the largest variable? __________

   if (aValue > largest)
   {
       result = aValue;
   }
   else
   {
   }
result = largest;
}

24. Looking at the example below, when phoneDigit has a value of ‘Q’, what value is stored in num? ______

switch (phoneDigit)
{
    case ‘A’:
    case ‘B’:
    case ‘C’:
        num = 1;
        break;
    default:
        num = 0;
        break;
}

25. Looking below, if the loop body was changed from counter++; to counter += 5;, how many times would the loop body be executed? _________

int counter = 0;
while (counter < 100)
{
    Console.WriteLine(counter);
    counter += 5;
}

26. What is the final value of num in the program segment below? ___________

Why is this odd? _________________________________________________

for (int num = 1; num < 10; num++)
{
    Console.WriteLine(num);
}

END OF PART I – HAND IN PART I AND START PART II. PART II IS OPEN-BOOK, OPEN-NOTES. NO LAPTOPS OR ELECTRONIC DEVICES OF ANY KIND!