

Overloaded methods always have the same _____.

- ☐ a. return type
- ☐ b. number of the parameters
- ☐ c. order of the parameters
- ☒ d. method name

[Clear my choice](#)

overridden methods must be declared public or _____.

- ☐ a. sealed
- ☒ b. protected
- ☒ c. None of these.
- ☐ d. static

[Clear my choice](#)

UML stands for the

Select one:

- ☐ a. Undefined Modelling Language
- ☒ b. Unified Modeling Language
- ☐ c. Unified Modelling Learning
- ☐ d. Unified Modern Language

[Clear my choice](#)

Instance variables declared readonly do not or cannot:

- ☒ a. be modified once the object is constructed.
- ☐ b. use the principle of least privilege.
- ☐ c. cause syntax errors if used as a left-hand value.
- ☐ d. be initialized.

[Clear my choice](#)

Instance variables or methods declared with the _____ modifier are accessible only in that class definition.

Select one:

- ☒ a. private
- ☐ b. static
- ☐ c. None of these.
- ☐ d. protected

[Clear my choice](#)

In object oriented programming, _____ is used to create an "is a" relationship among classes.

- ☐ a. logic
- ☐ b. progression
- ☒ c. inheritance
- ☐ d. elimination

[Clear my choice](#)

In UML class diagrams, the + sign

- ☒ a. is the public visibility symbol.
- ☐ b. None of these
- ☐ c. signifies that the section can be expanded.
- ☐ d. stands for addition.

[Clear my choice](#)

An instance of a particular class is called:

Select one:

☐ a. constructor

☐ b. setter

☐ c. getter

☒ d. object

[Clear my choice](#)

An advantage of inheritance is that:

- ☐ a. None of these.
- ☒ b. Objects of a derived class can be treated like objects of their base class.
- ☐ c. all methods can be inherited.
- ☐ d. all instance variables can be uniformly accessed by base classes and derived classes.

[Clear my choice](#)

An object's this reference refers to:

- ☐ a. what the programmer specified.
- ☐ b. None of these.
- ☒ c. the object itself.
- ☐ d. the entry point of the program.

[Clear my choice](#)

The class's method that changes the value of variable of that class's objects is called:

Select one:

☒ a. setter

☐ b. support

☐ c. constructor

☐ d. getter

[Clear my choice](#)

Classes are _____ types.

☐ a. abstract

☐ b. binary

☐ c. value

☒ d. reference

[Clear my choice](#)

Data _____ is the method of wrapping up (دمج) of data and functions into a single unit.

Select one:

- ☐ a. parameter passing
- ☒ b. encapsulation
- ☐ c. abstraction
- ☐ d. polymorphism

[Clear my choice](#)

Constructors ____.

- ☐ a. can be overloaded.
- ☒ b. all of the above.
- ☐ c. do not return a value.
- ☐ d. do not have to be written.

[Clear my choice](#)

A class's _____ are the statements that define the class's fields, properties, and methods.

Select one:

☒ a. member declarations

☐ b. field definitions

☐ c. private elements

☐ d. overall body

[Clear my choice](#)

A class contains _____ declarations and _____ declarations

Select one:

☐ a. methods, data

☐ b. states, behaviour

☐ c. services, methods

☒ d. All the aboves

[Clear my choice](#)

Creating an object is called:

Select one:

- ☐ a. ceartion
- ☒ b. instantiation
- ☐ c. developing
- ☐ d. All the above

[Clear my choice](#)

A class's _____ are the statements that define the class's fields, properties, and methods.

Select one:

- ☐ a. private elements

A class's _____ are the statements that define the class's fields, properties, and methods.

Select one:

- ☒ a. member declarations
- ☐ b. field definitions
- ☐ c. private elements
- ☐ d. overall body

Class members

A method cannot be used outside a class is a _____ method.

Select one or more:

☐ a. public

☒ b. private

☒ c. static

☐ d. abstract

Constructors should be:

Select one or more:

- ☐ a. private member
- ☒ b. public member
- ☐ c. No such type of membership in the class
- ☐ d. protected member

Changing the value of a static variable in one object changes it for:

Select one or more:

- ☒ a. all other objects
- ☒ b. the class
- ☐ c. only the last object
- ☐ d. only the first object

Which of the following types of methods do not have any return type (not even a void return type)?

Select one:

- ☒ a. constructor
- ☐ b. Method declared as public
- ☐ c. property method
- ☒ d. Method declared as private
- ☐ e. Method declared as static

[Clear my choice](#)

A class's _____ are the statements that define the class's fields, properties, and methods.

Select one:

- ☒ a. member declarations
- ☐ b. field definitions
- ☐ c. private elements
- ☐ d. overall body

[Clear my choice](#)

The objects of a class share the _____, but each object has _____

Select one or more:

- ☒ a. methods and data definitions, own data space
- ☐ b. methods and operations definitions, own data space
- ☐ c. own method space, data definition
- ☒ d. own data space, method definition

The maximum number of objects that can be created from any class is

Select one or more:

- ☐ a. 0 object
- ☒ b. theoretically unlimited
- ☐ c. 1 object
- ☐ d. 10 objects

A method's _____ is not part of the signature.

Select one:

- ☐ a. name
- ☐ b. argument kind
- ☒ c. return type
- ☒ d. parameter data type

[Clear my choice](#)

to invoke an object's methods, we use:

Select one:

☐ a. the instantiation operator

☒ b. the dot operator

☐ c. the constructor

☒ d. the new operator

[Clear my choice](#)

Creating an object is called:

Select one:

- ☐ a. ceartion
- ☒ b. instantiation
- ☐ c. developing
- ☐ d. All the above

[Clear my choice](#)

A class contains _____ declarations and _____ declarations

Select one:

- ☒ a. methods, data
- ☐ b. states, behaviour
- ☐ c. services, methods
- ☒ d. All the aboves

[Clear my choice](#)

The name of a class is used as a type to declare:

Select one:

- ☒ a. an object reference variable
- ☐ b. a class instance
- ☐ c. an object
- ☐ d. a constructor

[Clear my choice](#)

Data _____ is the method of wrapping up (دمج) of data and functions into a single unit.

Select one:


- ☐ a. parameter passing
- ☐ b. abstraction
- ☐ c. polymorphism
- ☒ d. encapsulation

Clear my choice

Constructor is

Select one or more:

- ☐ a. overloadable that are selected by either the number, the order, or the types of parameters.
- ☐ b. overloadable that can have identical argument lists.
- ☐ c. have return value
- ☒ d. used to initialize instance variables.

 See all photos

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Data _____ is the method of wrapping up (دمج) of data and functions into a single unit.

Select one:

- ☐ a. parameter passing
- ☒ b. encapsulation
- ☐ c. abstraction
- ☐ d. polymorphism

[Clear my choice](#)

Constructors ____.

- ☐ a. can be overloaded.
- ☒ b. all of the above.
- ☐ c. do not return a value.
- ☐ d. do not have to be written.

[Clear my choice](#)

The class's method that changes the value of variable of that class's objects is called:

Select one:

- ☒ a. setter
- ☐ b. support
- ☐ c. constructor
- ☐ d. getter

[Clear my choice](#)

Classes are _____ types.

- ☐ a. abstract
- ☐ b. binary
- ☐ c. value
- ☒ d. reference

[Clear my choice](#)

Based on the below UML diagram, which of the following is the implementation code of class Human constructor



?

☐ a.

```
public void Human(String name, Heart heart )
{
    this.name = name;
    this.heart =heart;
}
```

☐ b.

```
public void Human(String name )
{
    this.name = name;
    heart = new Heart(true);
}
```

☒ c.

```
public Human(String name )
{
    this.name = name;
    heart = new Heart(true);
}
```

Having a `this` reference allows:

- ☐ a. a method to refer implicitly to the instance variables and other methods of the object on which the method was called.
- ☒ b. a method to refer explicitly to the instance variables and other methods of the object on which the method was called.
- ☒ c. All of these.
- ☐ d. an object to reference itself.

[Clear my choice](#)

Instance variables declared `readonly` do not or cannot:

- ☒ a. be modified once the object is constructed.
- ☐ b. use the principle of least privilege.
- ☒ c. cause syntax errors if used as a left-hand value.
- ☐ d. be initialized.

[Clear my choice](#)

Instance variables or methods declared with the `_____` modifier are accessible only in that class definition.

Select one:

- ☒ a. `private`
- ☐ b. `static`
- ☐ c. None of these.
- ☐ d. `protected`

[Clear my choice](#)

An instance of a particular class is called:

Select one:

- ☐ a. constructor
- ☐ b. setter
- ☐ c. getter
- ☒ d. object

[Clear my choice](#)

UML stands for the

Select one:

- ☐ a. Undefined Modelling Language
- ☒ b. Unified Modeling Language
- ☐ c. Unified Modelling Learning
- ☐ d. Unified Modern Language

[Clear my choice](#)

Constructors should be:

Select one or more:

- ☐ a. private member
- ☐ b. protected member
- ☒ c. public member
- ☐ d. No such type of membership in the class

Methods that can be called directly through the class name must be declared as_____.

Select one or more:

- ☐ a. final
- ☒ b. static
- ☐ c. abstract
- ☐ d. public



The correct answer is: ref

Question 11

Correct

Mark 1 out of 1

Flag question

Which of the following should usually be private?

- ☐ a. constructors
- ☐ b. methods
- ☒ c. All of these
- ☐ d. variables



The correct answer is:
variables

Question 12

Correct

Mark 1 out of 1



variables

Question 12

Correct

Mark 1 out of 1

Flag question

Identifiers declared within a class have _____.

- ☐ a. block scope
- ☐ b. None of these.
- ☐ c. local scope
- ☒ d. class scope



The correct answer is: class scope

Question 13

Incorrect



Question 15

Correct

Mark 1 out of 1

Flag question

Overloaded methods always have the same _____.

- ☒ a. method name
- ☐ b. return type
- ☐ c. order of the parameters
- ☐ d. number of the parameters

The correct answer is:
method name

[Finish review](#)



Correct

Mark 1 out of 1

🚩 Flag question

The _____ keyword is used to pass value-type variables to methods by-reference.

- ☐ a. reference
- ☐ b. None of these.
- ☐ c. RefPass
- ☒ d. ref



The correct answer is: ref

Question 11

Correct

Mark 1 out of 1

🚩 Flag question



Question 13

Incorrect

Mark 0 out of 1

Flag question

Composition:

- ☒ a. All of these.
- ☐ b. is using an object reference as a class member.
- ☐ c. is a stronger form of aggregation.
- ☐ d. is a good design practice.

The correct answer is: All of these.

Question 14

Complete

Mark 7 out of 10



```
Console.WriteLine(t1.getx() + "  
" + t2.getx()));  
}  
}
```

Select one:

- ☐ a. the instance variable x is declared private and cannot be accessed directly
- ☒ b. the constructor must be without parameters ✗
- ☐ c. the constructor have to return a value of x
- ☒ d. There is no "getX🎈" method

The correct answer is: There is no "getX🎈" method



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7



there would be an error
because -----.

```
public class MyClass
{
private int x;
public MyClass(int i )
{
x = i;
}
}
//-----
--

public class DemoClass
{
public static void Main(String
args[])
{
MyClass t1 = new MyClass( 10
);
MyClass t2 = new MyClass(
20 );
Console.WriteLine(t1.getx()+ "
"+ t2.getx());
}
}
```




Question 9

Incorrect

Mark 0 out of 1

Flag question

What is the private visibility symbol in the UML class diagram?

☐ a. +☒ b. -☐ c. *☐ d. ^

The correct answer is: -

Question 10

Correct


Mark 1 out of 1

Flag question



Flag question

Which of the following is *false*?

- ☒ a. A static method can call instance methods directly.
- ☐ b. A static method has no this reference.
- ☐ c. A static method or property must be used to access private static instance variables.
- ☐ d. A static method can  be accessed even when no objects of its class have been instantiated.

The correct answer is:
A static method can call instance methods directly.



Question 5

Correct

Mark 1 out of 1

Flag question

To call a static method, use the _____ name followed by a period, and the method with its arguments.

- ☐ a. instance variable's
- ☐ b. namespace's
- ☒ c. class's
- ☐ d. All of these

The correct answer is: class's

Question 6

Incorrect

Mark 0 out of 1



string)

Question 4

Correct

Mark 1 out of 1

🚩 Flag question

Which of the following terms refers to the data represented by an object's instance variables?

- ☐ a. methods
- ☐ b. information
- ☐ c. behaviors
- ☒ d. attributes



The correct answer is:
attributes

Question 5



Question 7

Incorrect

Mark 0 out of 1

Flag question

A default constructor has how many parameters?

- ☐ a. any number
- ☐ b. 2
- ☒ c. 0
- ☐ d. 1



The correct answer is: 0

Question 8

Incorrect

Mark 0 out of 2

Flag question



Flag question

A C# class can have which of the following methods?

- A. `foo(int a)`
- B. `foo(int a, int b)`
- C. `foo(double a)`
- D. `foo(double a, double b)`
- E. `foo(int b)`

☐ a. All of these.

☒ b. A, B, C, D.



☐ c. A, C, D, E.

☐ d. A, B, D, E.

The correct answer is: A, B, C, D.

Question 3

Correct

Mark 1 out of 1

Flag question



Mark 0 out of 1

Flag question

Assuming that cat1 and cat2 are both instances of the Pet class, which one of the following statements will make the reference variable cat1 point to cat2 object?

Select one:

- ☒ a. cat1 = cat2;
- ☐ b. cat1(cat2); ✗
- ☐ c. cat1 = new cat2;
- ☐ d. cat2 = cat1;

The correct answer is: cat1 = cat2;

Question 2

Correct






Mark 1 out of 1


Flag question

How would the following method header be represented in a UML class diagram?

```
public void DisplayMessage( s
```

- ☒ a. + DisplayMessage(
courseName: string)
- ☐ b. + DisplayMessage()
- ☐ c. + DisplayMessage(
courseName)
- ☐ d. + DisplayMessage(string
)

The correct answer is: +
DisplayMessage(courseName:
string)

 Flag Question

Match the following

Public
methods

provide services to



Public
Variables

violate encapsul



Private
variables

enforce encapsul



The correct answer is:
Public methods →
provide services to
clients, Public Variables
→ violate
encapsulation, Private
variables → enforce
encapsulation



2



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```
public class
DemoClass
{
    public static void
    Main(String args[])
    {
        MyClass t1 = new
        MyClass( 10 );
        MyClass t2 = new
        MyClass( 20 );
        Console.WriteLine(t1.toS
        tring() + " " +
        t2.toString());
    }
}
```

Select one:

- ☐ a. the toString method is declared private and cannot be accessed





How can a private variable be accessed?

- ☐ a. If the private variable is inside the same class as the currently executing code, then you can access it normally using the variable's name.
- ☐ b. Use the property for that variable.
- ☒ c. Use a public method that is in the same class as the private variable, which can access the variable. ✗
- ☒ d. All of these

The correct answer is: All of these



Correct

Mark 1 out of 1

Flag question

A value-returning statement must have a(n) _____ statement.

Select one:

- ☐ a. logical
- ☐ b. assignment
- ☒ c. return
- ☐ d. void



The correct answer is:
return

Question **13**



Flag question

Keyword 'this' is used to reference :

Select one:

- ☒ a. the object itself.
- ☐ b. the entry point of the program.
- ☐ c. what the programmer specified.
- ☐ d. the method itself ✗

The correct answer is:
the object itself.



2



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Mark 1 out of 1

Flag question

The method that is automatically executed when an object is created is

Select one:

- ☐ a. toString
- ☒ b. constructor ✓
- ☐ c. getter
- ☐ d. setter

The correct answer is:
constructor



Flag question

Changing the value of a static variable in one object changes it for:

Select one or more:

- ☐ a. only the first object
- ☒ b. all other objects ✓
- ☐ c. the class
- ☐ d. only the last object

The correct answers are: all other objects, the class



Question **10**

Incorrect

Mark 0 out of 1

🚩 Flag question

A method's _____
is not part of the
signature.

Select one:

- ☒ a. name ✗
- ☐ b. parameter data type
- ☒ c. return type
- ☐ d. argument kind

The correct answer is:
return type





setter

Question 7

Correct

Mark 3 out of 3

Flag question

Match the following

Public
methods

provide services to

Public
Variables

violate encapsula

Private
variables

enforce encapsul



The correct answer is:
Public methods →
provide services to



2



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Mark 1 out of 1

Flag question

The _____
creates an object in
memory and returns a
reference to that
object.

Select one:

- ☐ a. = operator
- ☐ b. % operator
- ☐ c. .NET Framework
- ☒ d. new operator ✓

The correct answer is:
new operator



Question 5

Incorrect

Mark 0 out of 1

Flag question

Assuming that cat1 and cat2 are both instances of the Pet class, which one of the following statements will make the reference variable cat1 point to cat2 object?

Select one:

- ☒ a. cat2 = cat1; ✗
- ☐ b. cat1 = new cat2;
- ☒ c. cat1 = cat2;
- ☐ d. cat1(cat2);



2



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Flag



ation

The class's method that changes the value of variable of that class's objects is called:

Select one or more:

- ☒ a. getter ✗
- ☒ b. setter
- ☐ c. constructor
- ☐ d. support

The correct answer is:
setter



1. Based on the below UML diagram, write the implementation code to represent each class?
2. in the main method of Booktest class create:

- an Author object named a1 with following information (first name is Ali and last name is Romman)
- a Book object named book1 with



Mark 1 out of 1

Flag question

Composition is an:

Select one:

- ☒ a. has-a relationship ✓
- ☐ b. is-a relationship
- ☐ c. have-a relationship
- ☐ d. one-to-many relationship

The correct answer is:
has-a relationship

Question 4



2



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A constructor that accepts arguments is known as a(n)

-----.

Select one:

- ☒ a. parameterized constructor ✓
- ☐ b. alternate constructor
- ☐ c. aliased constructor
- ☐ d. constructor method

The correct answer is:
parameterized
constructor



Correc

Mark 1 out of 1

Flag question

A constructor that accepts arguments is known as a(n)

-----.

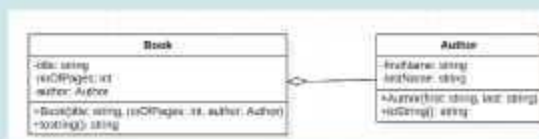
Select one:

- ☒ a. parameterized ✓ constructor
- ☐ b. alternate constructor
- ☐ c. aliased constructor
- ☐ d. constructor method

The correct answer is:
parameterized



the
following
information(
title is "C#
Programmin
g",
noOfpages
is 650,
Author is a1)



note: The toString
method return the
object information as
string

```

using System;

namespace midterm
{
    class BookTest
    {
        static void
Main(string[] args)
  
```




(73%)

Question 1

Correct

Mark 1 out of 1

Flag question

The _____ creates an object in memory and returns a reference to that object.

Select one:

- ☐ a. % operator
- ☐ b. .NET Framework
- ☐ c. = operator
- ☒ d. new operator



The correct answer is:
new operator

Question 2

Correct


Mark 1 out of 1

Flag question



```
MyClass t1 = new MyClass( 10
);
MyClass t2 = new MyClass( 20
);
Console.WriteLine(t1.toString()
+ " " + t2.toString());
}
}
```

Select one:

- ☒ a. the toString method  is declared private and cannot be accessed
- ☐ b. the constructor must be without parameters
- ☐ c. the instance variable x is declared private and cannot be accessed directly
- ☐ d. the constructor have to return a value of x

The correct answer is: the toString method is declared private and cannot be



Question 2

Correct

Mark 1 out of 1

Flag question

The combination of a method name and its parameter list is also called the ____.

Select one:

- ☒ a. method signature
- ☐ b. method header
- ☐ c. argument list
- ☐ d. method body

The correct answer is: method signature

Question 3

Correct

Mark 2 out of 2

Flag question

اجتماع في 'Object Oriented Programming Section 2'
تجري مشاركة المحتوى. بذل إلى Teams لمشاهدته.

A value is sent from a called method back to the calling method via:

Select one:

- ☐ a. the parameter in the head of the method
- ☒ b. the this operator ✗
- ☒ c. the return statement ✔
- ☐ d. the new operator

The correct answer is:
the return statement



Question 4

Correct

Mark 1 out of 1

Flag question

A parameter variable's scope is the _____ in which the parameter variable is declared.

Select one:

- ☐ a. namespace
- ☐ b. class
- ☐ c. field
- ☒ d. method



The correct answer is: method

Question 5

Partially correct

Mark 1 out of 3


Flag question



Question 8


Incorrect

Mark 0 out of 1

 Flag question

A variable that is used to reference an object is commonly called a (n)
-----.

Select one:


- ☒ a. class variable
- ☐ b. Boolean variable
- ☐ c. reference variable 
- ☐ d. object variable

The correct answer is: class variable

Question 9

Correct

Mark 1 out of 1

 Flag question

Once you have created