

1 Define Polymorphism

(More than one answer is correct)

- ✓ it is a characteristic when methods from different classes react differently to the same interface
- ✓ it is a characteristic when objects from different classes react differently to the same method call
- ✓ the same method is implemented in different ways by redefining the method in subclasses
- ✓ it is one of the main strengths of inheritance
- it is a characteristic when methods of the same class react differently to the same method call

2 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- ✓ receive their own copy of the static attribute for each subclass
- ✓ exist once per roll area
- cannot be shared
- ✓ does not allow for methods to be redefined in subclasses

3 The syntax for static method specification

- Call class-method
- Call Method-> class name
- ✓ Call method class name =>method
- Call method class name->method

4 Where would the components of a class be defined

- ✓ Implementation part of a class
- Logic component of a program
- ✓ Definition part of Class
- Data Component of a program

5 In the context of relationship between Super and Sub classes, identify the statements which apply

(More than one answer is correct)

- ✓ A change in a superclass does not automatically get realized in the subclass
- ✓ Superclass does not know its subclasses
- A superclass is a specialization of a subclass
- Subclass does not know its superclass
- ✓ A subclass is a specialization of a superclass

6 Pick the syntax for a functional method with only 1 parameter

(More than one answer is correct)

- ✓ refvar->method returning()
- ✓ refvar->method(p1)
- ✓ refvar->method(im = p1)
- refvar->method receiving()

7 Class A provides friendship to Class B. Class B provides friendship to Class C. Identify the valid friend relationship.

(More than one answer is correct)

- ✓ B and C are friends of A
- ✓ A is friend of B and C
- ✓ B is friend of A
- ✓ C is friend of B
- C is friend of A

8 What is true about classes and objects in Object Oriented ABAP

(More than one answer is correct)

- ✓ Objects can change their class
- ✓ Class is a template for an object
- Classes are an instance of an object
- ✓ Objects are an instance of a class

9 Identify the one addition that is not part of the interface of a method

- ✓ Exception
- Result
- Returning
- Importing

10 In the following method, what other parameters are allowed

```
CLASS lcl_course DEFINITION.  
  PUBLIC SECTION.  
    METHODS: get_course_name  
              IMPORTING im_name type string  
              Returning value(student_count) type I.  
ENDCLASS.
```

- ✓ Exceptions
- Receiving
- Exporting
- Changing

11 What items are true about Inheritance

(More than one answer is correct)

- ✓ Superclass private components are visible only within the subclasses
- ✓ Superclass public components are visible to all classes
- ✓ Superclass protected components are visible to all subclasses
- Superclass private components are visible to all subclasses

12 Refer to the following code and identify the statements that are TRUE

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
    CLASS-METHODS: list_prices_and_discounts.
ENDCLASS.
```

```
CLASS lcl_course IMPLEMENTATION.
  METHOD get_course_name.
    ENDMETHOD.

  METHOD list_prices_and_discounts.
    ENDMETHOD.
ENDCLASS.
```

```
Data: course1 type ref to lcl_course,
      course2 type ref to lcl_course.
```

```
Start-of-selection.
```

```
Create object course1.
Course2 = course1.
```

(More than one answer is correct)

Only one instance of method get_course_name exists

TAW10_2-2

- ✓ Memory is reserved for 2 instances of lcl_course
✓ Only one instance of method list_prices_and_discounts exists
list_prices_and_discounts is a instance method
Method list_prices_and_discounts can only be called once
method list_prices_and_discounts is a static method
- 13 Initializing an object in a subclass requires that the constructor of the superclas is first called. Identify the correct syntax.
-
- Call Method Constructor
Call Method Constructor-> Super
Call Method Super Constructor
Call Method Super-> Constructor
- 14 What component of a class guarantees its own consistency
-
- ✓ functional methods
✓ private attributes
public attributes
static methods
- 15 Define Polymorphism
-
- (More than one answer is correct)**
- ✓ the same method is implemented in different ways by redefining the method in subclasses
✓ it s one of the main strengths of inheritance
it s a characteristic when methods from different classes react differently to the same interface
it s a characteristic when methods of the same class react differently to the same method call
✓ it s a characteristic when objects from different classes react differently to the same method call
- 16 What is the only component that is implemented in the implementation part of a class
-

- ✓ Interface
Object
Method
Event
Attribute
- 17 Mark the item that is NOT true about the handler table
-
- ✓ Registered Methods in the handler table can only be triggered by RAISE EVENT i.e. not by CALL METHOD
Event handler methods are called in the sequence that they were registered in the handler table
There is a separate handler table for every object that has defined events
A single SET Handler command can be used to register multiple handler methods in the handler table
- 18 Local Class lcl_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR
-
- ✓ None of the answers are correct
R3TR lcl_class
R3TR LOCAL CLASS
R3TR ZCL CLASS
R3TR CLASS
- 19 When redefining methods in a subclass, what is allowed ?
-
- (More than one answer is correct)**
- ✓ Signature can be changed
Code can be changed
Private Static methods
✓ Only Instance methods

20 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.  
  
10 public section.  
20   Data: Price(3) type p decimals 2  
           value 100 READ-ONLY.  
30   Types: type_category(15) type C READ-ONLY.  
40   Constants: write_position type I value 10 READ-ONLY.  
  
50 private section.  
60   data: category(15) type C READ-ONLY,  
70   class-data: course_count type I READ-ONLY.  
  
endclass.
```

40
60
50
20
30



- 21 What syntax provides access to individual components of a class within the class
-

(More than one answer is correct)

- ✓ CALL METHOD ME->
- ✓ ME->
- object instance->ME->
- CALL METHOD object instance->ME->

- 22 What items are true about Inheritance
-

(More than one answer is correct)

- ✓ Superclass public components are visible to all classes
- Superclass private components are visible only within the subclasses
- Superclass private components are visible to all subclasses
- ✓ Superclass protected components are visible to all subclasses

- 23 In the context of Triggering and Handling of Events, mark those which apply
-

(More than one answer is correct)

- An event is defined in the Implementation of a Class
- Events can be triggered with the Trigger Event command
- ✓ Methods must be registered to an event in order to be called when the event is triggered
- ✓ Event Triggering using Raise Event can be issued in a method

24 Choose the short form of the method call below

call method `rf_car->calculate_cost` importing `ex_size = v_size`.

- ✓
- `rf_car->calculate_cost (importing ex_size = v_size).`
 - `calculate_cost(importing ex_size = v_size).`
 - `rf_car->calculate_cost(importing ex_size = v_size).`
 - `rf_car->calculate_cost importing ex_size = v_size.`

25 Identify the statement about Global Classes that is NOT true

- ✓
- Access to a global class is done as a reference variable using TYPE REF TO
 - Class Builder can be used to test global classes
 - Programs that are available to Global Classes must be associated in Class Builder
 - A method to be transported is identified in transport organiser as LIMU METH
 - Global classes are stored in TADIR with key R3TR CLAS

26 What statement will request memory to be allocated to an object

- ✓
- Call Method
 - Call Constructor
 - Create Object
 - Create Constructor

27 A MOVE_CAST_ERROR runtime error just occurred. Identify the cause.

- ✓
- Casting a super class to a subclass when superclass does not point to an instance of the subclass type
 - Super class and subclass both point to an instance of the same class type
 - Subclass reference variable corresponds to the superclass reference variable
 - Super class method is called from the subclass

28 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

- ✓ Global Classes are available only from programs belonging to the same development class
- ✓ Global classes are centrally available to all ABAP programs
- ✓ Local Classes are available only to the program where the class is defined
- Local Classes are available only to programs in the same development class

29 The syntax for static method specification

- ✓ Call method class name =>method
- Call class-method
- Call Method-> class name
- Call method class name->method

30 What happens when the Set Handler command is executed

- An instance of the event is created
- The Event is triggered
- The Event is handled
- ✓ The Event Handler Method is registered

31 What items are true about Inheritance

(More than one answer is correct)

- ✓ Superclass private components are visible only within the subclasses
- ✓ Superclass public components are visible to all classes
- Superclass private components are visible to all subclasses
- ✓ Superclass protected components are visible to all subclasses

32 What syntax provides access to individual components of a class within the class

(More than one answer is correct)

- ✓ CALL METHOD object instance->ME->
- ME->
- object instance->ME->
- ✓ CALL METHOD ME->

33 What component provides the Point of Contact for outside users

- Method Signature
- Instantiated Object
- Private Attributes
- ✓ Public Attributes

34 What name is always given to a static constructor ?

- class=>constructor
- static_constructor
- ✓ class_constructor
- constructor

- 35 Mark the items that characterize some primary differences between objects and functions
-

(More than one answer is correct)

- A program can directly access data in the function group while access to data in an object is not possible
- Functions allow multiple instances of the same data objects. Objects only allow single instances of data
- A program can only work with a single instance of the same function group versus a program can access several instances of the same object
- Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created

- 36 Identify the requirements that determine when an object gets deleted by garbage collection
-

(More than one answer is correct)

- When none of its methods are registered as event handlers
- When there are no more references pointing to an object
- When all active objects are marked
- When objects can no longer be addressed from main memory

- 37 Identify the valid statements that will write out the Static Attributes in the following code
-

```
class lcl_course definition.

    public section.
        data: name(15) type c value 'ABAPObjects101'.
              class-data price    type p value 100.

    private section.
        data: category(10) type C value 'Objects'.

endclass.

data: course1          type ref to lcl_course,
      course_name      type string,
```

```
course_price    type p,
course_category type string.
```

(More than one answer is correct)

- write: price.
write lcl_course->price.
✓ course_price = lcl_course=>price. Write course_price.
✓ write lcl_course=>price.
- 38 Changing the view of an instance of a class with more details is referred to as
-
- up cast
narrowing cast
dynamic referencing
✓ widening cast
- 39 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.
-
- ✓ Attributes and class methods can be redefined.
The signature of the method must remain the same
Constructor methods can't be redefined
Only instance methods can be redefined
- 40 What is contained in a class that does not exist in an interface
-
- attributes
method
✓ implementation
definition

TAW10_2-2

41 Identify the one addition that is not part of the interface of a method

- ✓ Result
- Returning
- Exception
- Importing

42 Pick the syntax for a functional method with only 1 parameter

(More than one answer is correct)

- ✓ `refvar->method(im = p1)`
- ✓ `refvar->method(p1)`
- `refvar->method returning()`
- `refvar->method receiving()`

43 In the context of Triggering and Handling of Events, mark those which apply

(More than one answer is correct)

- Events can be triggered with the `Trigger Event` command
- ✓ An event is defined in the Implementation of a Class
- Methods must be registered to an event in order to be called when the event is triggered
- ✓ Event Triggering using `Raise Event` can be issued in a method

44 Changing the view of an instance of a class with more details is referred to as

- ✓ widening cast
- narrowing cast
- dynamic referencing

up cast

- 45 What syntax provides access to individual components of a class within the class
-

(More than one answer is correct)

- ✓ `object instance->ME->`
- ✓ `ME->`
- ✓ `CALL METHOD object instance->ME->`
- ✓ `CALL METHOD ME->`

- 46 Refer to the following code and identify the statements that are TRUE
-

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
    CLASS-METHODS: list_prices_and_discounts.
ENDCLASS.
```

```
CLASS lcl_course IMPLEMENTATION.
  METHOD get_course_name.
    ENDMETHOD.

  METHOD list_prices_and_discounts.
    ENDMETHOD.
ENDCLASS.
```

```
Data: course1 type ref to lcl_course,
      course2 type ref to lcl_course.
```

```
Start-of-selection.
```

```
Create object course1.
Course2 = course1.
```

(More than one answer is correct)

- ✓ Only one instance of method `get_course_name` exists
- Method `list_prices_and_discounts` can only be called once
- Only one instance of method `list_prices_and_discounts` exists

TAW10_2-2

- ✓ list_prices_and_discounts is a instance method
method list_prices_and_discounts is a static method
Memory is reserved for 2 instances of lcl_course
- 47 Constructors have special considerations. Identify the incorrect statement below.
-
- ✓ Generally, constructor methods can not be called
The Constructor must defined in the Public section
A class can have multiple constructors
Only Import and Exception Parameters are allowed
- 48 In ABAP objects, which component is said to determine an objects behavior
-
- ✓ class
implementation
signature
method
- 49 Mark the invalid attribute definitions
-
- ```
class lcl_course definition.

10 public section.
20 Data: school(20) type c,
30 Supervisor type string value ADAMS ,
40 Price(3) type p decimals 2 value 100 READ-ONLY.
50 types: type_category(15) type c,
60 type_name(10) type c.

70 constants: write_position type i value 10.
80 class-data: course_count type i.
90 private section.
100 data: category(15) type c,
110 name(10) type c.
120 courseid like mara-matnr.

endclass.
```
- ✓ 70,80  
30,120



40,120

40,70

30,80

- 50 Identify the valid statements that will write out the Static Attributes in the following code
- 

```
class lcl_course definition.

 public section.
 data: name(15) type c value 'ABAPObjects101'.
 class-data price type p value 100.

 private section.
 data: category(10) type C value 'Objects'.

endclass.

data: course1 type ref to lcl_course,
 course_name type string,
 course_price type p,
 course_category type string.
```

**(More than one answer is correct)**

- ✓ write: price.
- ✓ course\_price = lcl\_course=>price. Write course\_price.
- ✓ write lcl\_course=>price.
- write lcl\_course->price.

51 What is the number of superclasses that can exist for a given subclass

---

- none
- only many
- ✓ only 1
- 1 or many

52 Define Polymorphism

---

**(More than one answer is correct)**

- ✓ it is a characteristic when objects from different classes react differently to the same method call
- ✓ the same method is implemented in different ways by redefining the method in subclasses
- it is a characteristic when methods from different classes react differently to the same interface
- it is a characteristic when methods of the same class react differently to the same method call
- ✓ it is one of the main strengths of inheritance

53 Mark the items that characterize some primary differences between objects and functions

---

**(More than one answer is correct)**

- A program can directly access data in the function group while access to data in an object is not possible
- ✓ Functions allow multiple instances of the same data objects. Objects only allow single instances of data
- A program can only work with a single instance of the same function group versus a program can access several instances of the same object
- ✓ Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created

54 What name is always given to a static constructor ?

---

- ✓ constructor
- class\_constructor
- class=>constructor
- static\_constructor

55 Identify the valid statements that will write out the Static Attributes in the following code

---

```
class lcl_course definition.

 public section.
 data: name(15) type c value 'ABAPObjects101'.
 class-data price type p value 100.

 private section.
 data: category(10) type C value 'Objects'.

endclass.

data: course1 type ref to lcl_course,
 course_name type string,
 course_price type p,
 course_category type string.
```

**(More than one answer is correct)**

- ✓ write lcl\_course=>price.
- write: price.
- ✓ course\_price = lcl\_course=>price. Write course\_price.
- write lcl\_course->price.

56 Choose the correct redefinition of the superclass method in class lcl\_super\_course

---

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
 PUBLIC SECTION.
 METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

## TAW10\_2-2

```
*Sub Class Method ReDefinition
A
CLASS lcl_sub_course DEFINITION INHERITING
 FROM lcl_super_course.
 PRIVATE SECTION.
 METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.

B
CLASS lcl_sub_course DEFINITION INHERITING
 FROM lcl_super_course.
 PUBLIC SECTION.
 METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.

C
CLASS lcl_sub_course DEFINITION INHERITING
 FROM lcl_super_course.
 PRIVATE SECTION.
 METHODS: get_course_name REDEFINITION.
ENDCLASS.

D
CLASS lcl_sub_course DEFINITION INHERITING
 FROM lcl_super_course.
 PUBLIC SECTION.
 METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

- ✓ SubClass Definition A
- SubClass Definition D
- SubClass Definition C
- SubClass Definition B

57 Identify the behaviors of Abstract Classes.

---

**(More than one answer is correct)**

- Can only be implemented through an Interface
- ✓ Cannot be instantiated
- Methods can not be implemented in the subclass
- ✓ Methods can only be implemented in the subclass

58 How can a program access private attributes of an object

- ✓
  - Only by methods of the specific object itself
  - By methods of a different object within the same Program
  - From outside the class
  - By methods of a different instance of the same object

59 What is the only component that is implemented in the implementation part of a class

---

- ✓
  - Event
  - Object
  - Method
  - Interface
  - Attribute

60 Which of the following answers characterize ABAP OO events

---

**(More than one answer is correct)**

- ✓
  - Classes subscribe to events
  - Methods subscribe to classes
- ✓
  - Classes trigger events
  - Start-of-selection is an OO event
  - Events subscribe to classes

61 Identify the ABAP OO Event signature protocols

---

**(More than one answer is correct)**

- ✓ Exporting parameters can only be passed by reference
- ✓ Exporting parameters can only be passed by value
- ✓ Events can only have exporting Parameters
- Events can only have importing Parameters

62 Where would the components of a class be defined

---

- ✓ Logic component of a program
- Data Component of a program
- Definition part of Class
- Implementation part of a class

63 Identify the characteristics of the self reference ME

---

- ✓ None of the answers are correct
- Self references allow an object to give other objects a reference to it.
- ✓ All answers are correct
- The reference ME can be used to determine the dynamic type of the reference variable in the debugger
- The self-reference ME can be used to access individual components

64 What can be said about the lifetime of an object

---

- ✓ An object exists for as long as it is being used in the program
- All answers are correct

An object exists as long as at least one method of the object is registered as an event handler.

An object exists as long as at least one reference points to it

65 Mark the items that characterize the Methods of a Class

---

**(More than one answer is correct)**

- ✓ Only pass return codes to the calling program
- ✓ Can access all attributes in their class
- ✓ Can be defined with a parameter interface
- ✓ Can access only public attributes in their class
- ✓ Can change the state of an object

66 In the context of polymorphism and interfaces, mark the item that is NOT true

---

- ✓ interfaces describe the point of contact of a class
- a class can implement any number of interfaces
- interfaces contain their own implementation part
- the user is protected from the actual implementations

67 What component of a class guarantees its own consistency

---

- ✓ private attributes
- static methods
- functional methods
- public attributes

68 Identify the line that contains the valid use of the READ-ONLY additon

---

```
class lcl_course definition.

10 public section.
20 Data: Price(3) type p decimals 2
 value 100 READ-ONLY.
30 Types: type_category(15) type C READ-ONLY.
40 Constants: write_position type I value 10 READ-ONLY.
```

```

50 private section.
60 data: category(15) type C READ-ONLY,
70 class-data: course_count type I READ-ONLY.

endclass.

```

✓

50  
20  
30  
40  
60

69 How can a program access private attributes of an object

---

✓

Only by methods of the specific object itself  
From outside the class  
By methods of a different instance of the same object  
By methods of a different object within the same Program

70 What items are true about Inheritance

---

**(More than one answer is correct)**

✓

Superclass private components are visible only within the subclasses

✓

Superclass public components are visible to all classes

Superclass private components are visible to all subclasses

✓

Superclass protected components are visible to all subclasses



71 Identify the statements that best describe the visibility of classes

---

**(More than one answer is correct)**

- ✓ Global classes are centrally available to all ABAP programs
- Global Classes are available only from programs belonging to the same development class
- Local Classes are available only to programs in the same development class
- ✓ Local Classes are available only to the program where the class is defined

72 An inherited class :

---

**(More than one answer is correct)**

- can not access the protected components
- can remove superclass components
- can access the inherited private components
- ✓ can redefine the public methods of the superclass
- ✓ can add components over and above the superclass

73 Mark the items that characterize the Methods of a Class

---

**(More than one answer is correct)**

- ✓ Can access all attributes in their class
- ✓ Can be defined with a parameter interface
- Only pass return codes to the calling program
- ✓ Can change the state of an object
- Can access only public attributes in their class

74 Initializing an object in a subclass requires that the constructor of the superclass is first called. Identify the correct syntax.

---

- ✓ Call Method Super Constructor
- Call Method Super-> Constructor
- Call Method Constructor
- Call Method Constructor-> Super

75 Using the UML modeling language for ABAP OO design, refer to the following and indicate the visibility of the components

```

cl_myclass
+city
#address

+ get_city()
- display_addr()

```

**(More than one answer is correct)**

- ✓ city is a public attribute
- ✓ display\_address is a private method
- ✓ address is protected attribute
- get\_city is a public attribute
- display\_address is a static public method
- display\_address is a public method

76 Constructors have special considerations. Identify the incorrect statement below.

- ✓ Only Import and Exception Parameters are allowed
- A class can have multiple constructors
- The Constructor must defined in the Public section
- Generally, constructor methods can not be called

77 What is contained in a class that does not exist in an interface

method  
definition

- attributes  
implementation
- 78 Method
- 
- lif\_material~display  
display  
lcl\_basepart~display  
lcl\_basepart~display  
lcl\_basepart=>display  
lcl\_basepart->display
- 79 What items are true about Inheritance
- 
- (More than one answer is correct)**
- Superclass public components are visible to all classes  
Superclass protected components are visible to all subclasses  
Superclass private components are visible to all subclasses  
Superclass private components are visible only within the subclasses
- 80 Using example code below, choose the correct syntax for the redefined method
- 
- ```
Class lcl_car definition.
Public Section.
  method calc_speed importing im_distance type ty_dist.
End Class.
```
- Method calc_speed Redefinition.
Method calc_speed importing im_distance Redefinition
Method calc_speed Redefinition importing im_distance type ty_dist.
Method calc_speed importing im_distance.

TAW10_2-2

81 Mark the operators used to widen cast of a class

(More than one answer is correct)

- ✓ ->
- ✓ ?=
- ⇒
- =
- =?
- ✓ ?TO

82 What name is always given to a static constructor ?

- ✓ class_constructor
- static_constructor
- constructor
- class=>constructor

83 Identify the one addition that is not part of the interface of a method

- ✓ Importing
- Result
- Exception
- Returning

84 UML provides various diagram types. Mark the valid UML diagrams

(More than one answer is correct)

- ✓ Behavior
- ✓ Component
- Aggregation
- Composition
- ✓ Class

- 85 A program needs to gain access to the public attributes of class lcl_course. Identify the statements that are valid.
-

```
class lcl_course definition.

    public section.

    data:      name(15) type c value 'ABAPObjects101'.
              class-data price    type p value 100.

    private section.

    data: category(10) type C value 'Objects'.

endclass.

data: course1      type ref to lcl_course,
      course_name  type string,
      course_price type p,
      course_category type string.
```

Create Object course1.

(More than one answer is correct)

- ✓ course_name = course1->name.
- ✓ course_price = lcl_course=>price.
- course_name = name
- course_price = lcl_course->price.
- course_name = course1=>name.

- 86 Pick the syntax for a functional method with only 1 parameter
-

(More than one answer is correct)

- ✓ refvar->method(im = p1)
- refvar->method receiving()
- refvar->method returning()
- ✓ refvar->method(p1)

- 87 Class A provides friendship to Class B. Class B provides friendship to Class C. Identify the valid friend relationship.
-

(More than one answer is correct)

- ✓ C is friend of B
- ✓ C is friend of A
- ✓ A is friend of B and C
- ✓ B and C are friends of A
- ✓ B is friend of A

88 Identify the valid rule when calling public methods from within the class

- ✓ When calling an instance method, the => operator is still required
- Private methods can not call public methods
- When calling a static method, the class name is required
- When calling a static method, the class name can be omitted

89 What is contained in a class that does not exist in an interface

- ✓ attributes
- ✓ implementation
- method
- definition

90 What statement will request memory to be allocated to an object

- ✓ Create Constructor
- ✓ Create Object
- Call Method
- Call Constructor

TAW10_2-2

91 Identify the requirements that determine when an object gets deleted by garbage collection

(More than one answer is correct)

- ✓ When none of its methods are registered as event handlers
- ✓ When there are no more references pointing to an object
- ✓ When objects can no longer be addressed from main memory
- When all active objects are marked

92 Select the answers that apply to static methods and instance methods

(More than one answer is correct)

- Static methods **MUST** be addressed by object reference after instantiation
- Instance methods **MUST** be addressed by class name
- ✓ Instance methods **MUST** be addressed by object ref after instantiation
- ✓ Static methods **MUST** be addressed by `class_name` even when object is instantiated

93 Identify the ABAP OO Event signature protocols

(More than one answer is correct)

- ✓ Events can only have exporting Parameters
- Events can only have importing Parameters
- ✓ Exporting parameters can only be passed by value
- Exporting parameters can only be passed by reference

94 Using example code below, choose the correct syntax for the redefined method

```

Class lcl_car definition.
Public Section.
    method calc_speed importing im_distance type ty_dist.
End Class.

```

- ✓ Method calc_speed Redefinition.
- Method calc_speed importing im_distance.
- Method calc_speed Redefinition importing im_distance type ty_dist.
- Method calc_speed importing im_distance Redefinition

95 UML provides various diagram types. Mark the valid UML diagrams

(More than one answer is correct)

- ✓ Composition
- ✓ Behavior
- Aggregation
- ✓ Component
- ✓ Class

96 What is true about classes and objects in Object Oriented ABAP

(More than one answer is correct)

- ✓ Class is a template for an object
- Classes are an instance of an object
- Objects can change their class
- ✓ Objects are an instance of a class

97 Using the UML modeling language for ABAP OO design, refer to the following and indicate the visibility of the components

```

-----
| cl_myclass          |
-----
| +city              |
| #address           |
|-----|
| + get_city()       |
| - display_addr()  |
|                   |

```


|-----|

(More than one answer is correct)

- ✓ display_address is a private method
- ✓ city is a public attribute
- get_city is a public attribute
- display_address is a static public method
- ✓ address is protected attribute
- display_address is a public method

98 What items are true about Inheritance

(More than one answer is correct)

- Superclass private components are visible to all subclasses
- Superclass private components are visible only within the subclasses
- ✓ Superclass protected components are visible to all subclasses
- ✓ Superclass public components are visible to all classes

99 What is the number of superclasses that can exist for a given subclass

- none
- ✓ only 1
- only many
- 1 or many

100 What can be said about the visibility of attributes in the following code

```

CLASS lcl_course DEFINITION.
PUBLIC SECTION.
    Data: name type string.

PRIVATE SECTION.
    Data: price type course-price.

ENDCLASS.

```

(More than one answer is correct)



price is protected from outside access



price is available to methods inside the class

name is protected from outside access

name is available to methods only inside the class

TAW10_2-2

101 The concept of restricting direct access to data via hidden internal processes is best represented by which term

- ✓
- Inheritance
 - Instantiation
 - Encapsulation
 - Polymorphism

102 What can be said about the lifetime of an object

- ✓
- An object exists as long as at least one method of the object is registered as an event handler.
 - An object exists for as long as it is being used in the program
 - All answers are correct
 - An object exists as long as at least one reference points to it

103 In the following method, what other parameters are allowed

```

CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name
              IMPORTING im_name type string
              Returning value(student_count) type I.
ENDCLASS.

```

- ✓
- Changing
 - Exporting
 - Receiving
 - Exceptions

104 Identify the valid rule when calling public methods from within the class

- ✓ When calling an instance method, the => operator is still required
- ✓ When calling a static method, the class name can be omitted
- When calling a static method, the class name is required
- Private methods can not call public methods

105 An inherited class :

(More than one answer is correct)

- ✓ can redefine the public methods of the superclass
- can not access the protected components
- can remove superclass components
- can access the inherited private components
- ✓ can add components over and above the superclass

106 When redefining methods in a subclass, what is allowed ?

(More than one answer is correct)

- ✓ Only Instance methods
- Signature can be changed
- ✓ Code can be changed
- Private Static methods

107 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- receive their own copy of the static attribute for each subclass
- ✓ exist once per roll area
- cannot be shared
- ✓ does not allow for methods to be redefined in subclasses

108 What component provides the Point of Contact for outside users

- ✓ Public Attributes
- Instantiated Object
- Private Attributes
- Method Signature

109 A program needs to gain access to the public attributes of class lcl_course. Identify the statements that are valid.

```
class lcl_course definition.
  public section.
    data: name(15)    type c value 'ABAPObjects101'.
          class-data price type p value 100.

  private section.
    data: category(10) type C value 'Objects'.

endclass.

data: course1          type ref to lcl_course,
      course_name      type string,
      course_price     type p,
      course_category  type string.

**INSTANTIATION OMITTED **
```

(More than one answer is correct)

- ✓ course_name = name
- ✓ course_name = course1=>name.
- ✓ course_price = lcl_course=>price.
- name can not be accessed unless course1 is instantiated
- course_name = course1->name.

110 In object orientation, the term USER includes

- Attributes
- Events
- Methods
- None of the answers are correct
- ✓ All of the answers are correct

111 What statement will request memory to be allocated to an object

- ✓ Call Constructor
- Create Constructor
- Create Object
- Call Method

112 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

- ✓ Methods can only be implemented in the subclass
- Can only be implemented through an Interface
- ✓ Cannot be instantiated
- Methods can not be implemented in the subclass

113 What component provides the Point of Contact for outside users

- ✓ Instantiated Object
- Public Attributes
- Method Signature
- Private Attributes

114 The syntax for instance method specification is

(More than one answer is correct)

- ✓ Call method Objref->method
- Call Method->Objref
- ✓ Call method (from within another instance method)
- Call method Objref=>method

115 What happens when the Set Handler command is executed

-
- ✓ The Event Handler Method is registered
 - An instance of the event is created
 - The Event is triggered
 - The Event is handled

116 Finish the sentence. Propogating exceptions requires

_____.

- ✓ the Raising cx_class parameter as part of the method signature where the exception is raised
- a handler for the exception
- a Cleanup Statement
- the Raising cx_class parameter as part of the method signature of the calling method

117 Select the term used for Classes that can implement the same method differently

-
- ✓ instantiation
 - polymorphism
 - inheritance
 - encapsulation
 - casting

118 How can a program access private attributes of an object

-
- By methods of a different instance of the same object
 - From outside the class
 - By methods of a different object within the same Program
 - ✓ Only by methods of the specific object itself

119 Define Polymorphism

(More than one answer is correct)

TAW10_2-2

it is a characteristic when methods from different classes react differently to the same interface

it is a characteristic when methods of the same class react differently to the same method call

✓ it is a characteristic when objects from different classes react differently to the same method call

✓ it is one of the main strengths of inheritance

✓ the same method is implemented in different ways by redefining the method in subclasses

120

What is the only component that is implemented in the implementation part of a class

✓ Attribute
Method
Event
Object
Interface

TAW10_2-2

121 Identify the statement about Global Classes that is NOT true

- ✓ A method to be transported is identified in transport organiser as LIMU METH
- Global classes are stored in TADIR with key R3TR CLAS
- Class Builder can be used to test global classes
- Access to a global class is done as a reference variable using TYPE REF TO
- ✓ Programs that are available to Global Classes must be associated in Class Builder

122 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

- ✓ Cannot be instantiated
- Can only be implemented through an Interface
- Methods can not be implemented in the subclass
- ✓ Methods can only be implemented in the subclass

123 Using example code below, choose the correct syntax for the redefined method

```
Class lcl_car definition.
Public Section.
  method calc_speed importing im_distance type ty_dist.
End Class.
```

- Method calc_speed Redefinition importing im_distance type ty_dist.
- Method calc_speed importing im_distance Redefinition
- ✓ Method calc_speed Redefinition.
- Method calc_speed importing im_distance.

124 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

- ✓ Events subscribe to classes
- ✓ Classes subscribe to events
- ✓ Classes trigger events
- Start-of-selection is an OO event
- Methods subscribe to classes

125 Changing the view of an instance of a class with more details is referred to as

- up cast
- dynamic referencing
- narrowing cast
- ✓ widening cast

126 Mark the item that is NOT true about the handler table

- ✓ Registered Methods in the handler table can only be triggered by RAISE EVENT i.e. not by CALL METHOD
- A single SET Handler command can be used to register multiple handler methods in the handler table
- There is a separate handler table for every object that has defined events
- Event handler methods are called in the sequence that they were registered in the handler table

127 Identify the ABAP OO Event signature protocols

(More than one answer is correct)

- ✓ Exporting parameters can only be passed by value
- Exporting parameters can only be passed by reference
- Events can only have importing Parameters
- ✓ Events can only have exporting Parameters

128 Choose the item that is not characteristic of redefinition in the context

of super/sub class inheritance.

- ✓ Constructor methods can't be redefined
- Only instance methods can be redefined
- Attributes and class methods can be redefined.
- The signature of the method must remain the same

129 Using the UML modeling language for ABAP OO design, refer to the following and indicate the visibility of the components

```

-----
| cl_myclass          |
-----
| +city              |
| #address           |
|-----|
| + get_city()      |
| - display_addr() |
|                   |
|-----|

```

(More than one answer is correct)

- ✓ display_address is a public method
- display_address is a static public method
- display_address is a private method
- ✓ address is protected attribute
- ✓ city is a public attribute
- get_city is a public attribute

130 Method

- lcl_basepart->display
- lcl_basepart~display
- display
- lcl_basepart~display
- ✓ lif_material~display
- lcl_basepart=>display

TAW10_2-2

131 Identify the characteristics of the self reference ME



All answers are correct
The self-reference ME can be used to access individual components
None of the answers are correct
The reference ME can be used to determine the dynamic type of the reference variable in the debugger
Self references allow an object to give other objects a reference to it.

132 What implications exist when private components of a class are changed



Programs are insulated from change
None of the answers are correct
Users of the private components must change their interface
Any programs accessing the class must also change

133 What is the number of superclasses that can exist for a given subclass



only 1
1 or many
none
only many

134 Where are the methods of a class implemented



Definition part of Class
Object instantiation part of a program
Implementation part of a class
Call method of the class

- 135 A program needs to gain access to the public attributes of class lcl_course. Identify the statements that are valid.
-

```
class lcl_course definition.

    public section.

    data:      name(15) type c value 'ABAPObjects101'.
              class-data price    type p value 100.

    private section.

    data: category(10)  type C value 'Objects'.

endclass.

data: course1          type ref to lcl_course,
      course_name      type string,
      course_price     type p,
      course_category  type string.
```

Create Object course1.

(More than one answer is correct)

- ✓ `course_price = lcl_course=>price.`
- `course_name = name`
- `course_price = lcl_course->price.`
- `course_name = course1=>name.`
- ✓ `course_name = course1->name.`

- 136 Mark the invalid attribute definitions
-

```
class lcl_course definition.

10 public section.
20 Data: school(20)  type c,
30     Supervisor  type string value ADAMS ,
40     Price(3)    type p decimals 2 value 100 READ-ONLY.
50 types: type_category(15) type c,
60     type_name(10)      type c.

70 constants: write_position type i value 10.
80 class-data: course_count type i.
90 private section.
100 data: category(15) type c,
```

TAW10_2-2

```
110      name(10)      type c.  
120      courseid     like mara-matnr.
```

endclass.

✓
30,120
40, 120
70,80
40,70
30,80

137 Mark the items that characterize some primary differences between objects and functions

(More than one answer is correct)

- ✓ A program can directly access data in the function group while access to data in an object is not possible
Functions allow multiple instances of the same data objects. Objects only allow single instances of data
- ✓ Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created
- ✓ A program can only work with a single instance of the same function group versus a program can access several instances of the same object

138 Identify the Characteristics of a Final Class

- ✓ methods cannot be explicitly designated as FINAL
all answers are correct
contains final methods implicitly
No answers are correct
cannot have subclasses

139 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

- ✓ Classes subscribe to events
- Events subscribe to classes
- Start-of-selection is an OO event
- Methods subscribe to classes
- ✓ Classes trigger events

140 Identify the valid rule when calling public methods from within the class

- ✓ When calling a static method, the class name can be omitted
- When calling an instance method, the => operator is still required
- Private methods can not call public methods
- When calling a static method, the class name is required

141 What is true about classes and objects in Object Oriented ABAP

(More than one answer is correct)

- ✓ Class is a template for an object
- ✓ Objects are an instance of a class
- Objects can change their class
- Classes are an instance of an object

142 Select the term used for Classes that can implement the same method differently

- ✓ polymorphism
- inheritance
- encapsulation
- casting
- instantiation

143 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- cannot be shared
- receive their own copy of the static attribute for each subclass
- ✓ exist once per roll area
- ✓ does not allow for methods to be redefined in subclasses

144 Where is the visibility of class components defined

- ✓ Class Definition
- Class Methods
- Object Instance

Class Implementation

145 Mark the invalid attribute definitions

```
class lcl_course definition.

10 public section.
20   Data: school(20)   type c,
30         Supervisor type string value ADAMS ,
40         Price(3)   type p decimals 2 value 100 READ-ONLY.
50   types: type_category(15) type c,
60         type_name(10)      type c.

70   constants: write_position type i value 10.
80   class-data: course_count type i.
90 private section.
100  data: category(15) type c,
110         name(10)      type c.
120         courseid      like mara-matnr.

endclass.
```

✓ 30,120
 40,120
 30,80
 70,80
 40,70

146 Mark the operators used to widen cast of a class

(More than one answer is correct)

✓ =
 ✓ =?
 ?=
 ?TO
 ->
 =>

147 Refer to the following code and Select the VALID method call

```
Class lcl_course definition.
Public section.
   data:   course_name(12) type c.
```

TAW10_2-2

```
methods: display_price
         importing im_course_name type string.
```

Private section.

```
Data:    price                type P value 100.
constants: c_objects101(10) type c value 'OBJECTS101'.
```

endclass.

class lcl_course implementation.

```
method display_price.
  course_name = im_course_name.
  If course_name = c_objects101.
    Write: price.
  Endif.
endmethod.
```

endclass.

Data obj_course type ref to lcl_course.

start-of-selection.

```
create object obj_course.
```

Call method obj_course->display_price exporting
im_course_name = c_objects101.

Call method obj_course->display_price importing
im_course_name = 'OBJECTS101'.

✓

Call method obj_course->display_price exporting
im_course_name = 'OBJECTS101'.

Call method obj_course->display_price exporting
course_name = 'OBJECTS101'.

- 148 A program needs to gain access to the public attributes of class
lcl_course. Identify the statements that are valid.
-

```
class lcl_course definition.
```

```
public section.
```

```
data:    name(15) type c value 'ABAPObjects101'.
class-data price    type p value 100.
```

```
private section.
```

TAW10_2-2

```
data: category(10) type C value 'Objects'.  
  
endclass.  
  
data: course1      type ref to lcl_course,  
      course_name  type string,  
      course_price type p,  
      course_category type string.  
  
Create Object course1.
```

(More than one answer is correct)

- ✓ course_name = course1->name.
course_name = course1=>name.
course_price = lcl_course->price.
course_name = name
- ✓ course_price = lcl_course=>price.

149 In the context of polymorphism and interfaces, mark the item that is NOT true

- ✓ interfaces describe the point of contact of a class
the user is protected from the actual
implementations
a class can implement any number of interfaces
interfaces contain their own implementation part

150 Where are the methods of a class implemented

- ✓ Implementation part of a class
Object instantiation part of a program
Call method of the class
Definition part of Class

TAW10_2-2

151 What statement will request memory to be allocated to an object

- ✓ Create Object
- Create Constructor
- Call Method
- Call Constructor

152 How can a program access private attributes of an object

- By methods of a different object within the same Program
- By methods of a different instance of the same object
- From outside the class
- ✓ Only by methods of the specific object itself

153 What are the rules for Event parameters

(More than one answer is correct)

- Events also allow RETURNING parameters
- EXPORTING Parameters for events can only be passed by reference
- ✓ EXPORTING Parameters for events can only be passed by value
- ✓ Events can only have EXPORTING parameters

154 Identify the requirements that determine when an object gets deleted by garbage collection

(More than one answer is correct)

- ✓ When there are no more references pointing to an object
- When all active objects are marked

- ✓ When objects can no longer be addressed from main memory
- ✓ When none of its methods are registered as event handlers

155 UML provides various diagram types. Mark the valid UML diagrams

(More than one answer is correct)

- ✓ Component
- ✓ Composition
- ✓ Class
- ✓ Aggregation
- ✓ Behavior

156 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.

- ✓ Constructor methods can't be redefined
- Attributes and class methods can be redefined.
- The signature of the method must remain the same
- Only instance methods can be redefined

157 Mark the items that characterize the Methods of a Class

(More than one answer is correct)

- ✓ Can change the state of an object
- Only pass return codes to the calling program
- ✓ Can be defined with a parameter interface
- Can access only public attributes in their class
- ✓ Can access all attributes in their class

158 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- cannot be shared
- receive their own copy of the static attribute for each subclass
- ✓ exist once per roll area
- ✓ does not allow for methods to be redefined in subclasses

159 Mark the items that characterize some primary differences between objects and functions

(More than one answer is correct)

- ✓ A program can only work with a single instance of the same function group versus a program can access several instances of the same object
- Functions allow multiple instances of the same data objects. Objects only allow single instances of data
- ✓ Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created
- A program can directly access data in the function group while access to data in an object is not possible

160 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.

10 public section.
20   Data: Price(3) type p decimals 2
        value 100 READ-ONLY.
30   Types: type_category(15) type C READ-ONLY.
40   Constants: write_position type I value 10 READ-ONLY.

50 private section.
60   data: category(15) type C READ-ONLY,
70   class-data: course_count type I READ-ONLY.

endclass.
```

- 50
- 30
- ✓ 20

40
60

TAW10_2-2

161 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

- ✓ Methods can only be implemented in the subclass
- ✓ Can only be implemented through an Interface
- ✓ Cannot be instantiated
- Methods can not be implemented in the subclass

162 Local Class lcl_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR

- ✓ R3TR CLASS
- R3TR ZCL CLASS
- None of the answers are correct
- R3TR LOCAL CLASS
- R3TR lcl_class

163 How can a program access private attributes of an object

- From outside the class
- By methods of a different object within the same Program
- ✓ Only by methods of the specific object itself
- By methods of a different instance of the same object

164 Refer to the following code and indicate which statements are true

```
Data: cl_container type ref to cl_gui_custom_container,
      cl_grid      type ref to cl_gui_alv_grid.
```

(More than one answer is correct)

- ✓ cl_grid points to the object that communicates with the container control
- ✓ cl_container points to the object that communicates with the container control
- ✓ cl_grid points to the object that communicates with the ALV grid control
- cl_container points to the object that communicates with the ALV grid control

165 Class A provides friendship to Class B. Class B provides friendship to Class C. Identify the valid friend relationship.

(More than one answer is correct)

- ✓ B is friend of A
- ✓ C is friend of A
- ✓ C is friend of B
- B and C are friends of A
- A is friend of B and C

166 Choose the correct redefinition of the superclass method in class lcl_super_course

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
    PUBLIC SECTION.
        METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
*Sub Class Method ReDefinition
A
CLASS lcl_sub_course DEFINITION INHERITING
    FROM lcl_super_course.
    PRIVATE SECTION.
        METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
B
CLASS lcl_sub_course DEFINITION INHERITING
    FROM lcl_super_course.
    PUBLIC SECTION.
        METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
C
CLASS lcl_sub_course DEFINITION INHERITING
```

TAW10_2-2

```
FROM lcl_super_course.  
PRIVATE SECTION.  
METHODS: get_course_name REDEFINITION.  
ENDCLASS.
```

```
D  
CLASS lcl_sub_course DEFINITION INHERITING  
FROM lcl_super_course.  
PUBLIC SECTION.  
METHODS: get_course_name REDEFINITION.  
ENDCLASS.
```

✓

- SubClass Definition A
- SubClass Definition D
- SubClass Definition C
- SubClass Definition B

167 Identify the one addition that is not part of the interface of a method

✓

- Returning
- Result
- Exception
- Importing

168 Refer to the following code and identify the statements that are TRUE

```
CLASS lcl_course DEFINITION.  
PUBLIC SECTION.  
METHODS: get_course_name IMPORTING im_name type string.  
CLASS-METHODS: list_prices_and_discounts.  
ENDCLASS.
```

```
CLASS lcl_course IMPLEMENTATION.  
METHOD get_course_name.  
ENDMETHOD.  
  
METHOD list_prices_and_discounts.  
ENDMETHOD.  
ENDCLASS.
```

```
Data: course1 type ref to lcl_course,  
course2 type ref to lcl_course.
```

```
Start-of-selection.
```

```
Create object course1.
Course2 = course1.
```

(More than one answer is correct)

- ✓ list_prices_and_discounts is a instance method
- Memory is reserved for 2 instances of lcl_course
- ✓ method list_prices_and_discounts is a static method
- Only one instance of method list_prices_and_discounts exists
- Only one instance of method get_course_name exists
- Method list_prices_and_discounts can only be called once

169 A program needs to gain access to the public attributes of class lcl_course. Identify the statements that are valid.

```
class lcl_course definition.
  public section.
    data: name(15)    type c value 'ABAPObjects101'.
          class-data price type p value 100.

  private section.
    data: category(10) type C value 'Objects'.

endclass.

data: course1          type ref to lcl_course,
      course_name      type string,
      course_price     type p,
      course_category  type string.

**INSTANTIATION OMITTED **
```

(More than one answer is correct)

- ✓ course_name = name
- course_name = course1=>name.
- name can not be accessed unless course1 is instantiated
- course_name = course1->name.
- ✓ course_price = lcl_course=>price.

170 Which statement will create an instance of a class



Class my_class Implementation
Create Object my_object
Class my_class Definition.
Data: my_object TYPE REF TO my_class

TAW10_2-2

171 Finish the sentence. Propogating exceptions requires

_____.

-
- ✓ the Raising cx_class parameter as part of the method signature of the calling method
 - ✓ the Raising cx_class parameter as part of the method signature where the exception is raised
 - a handler for the exception
 - a Cleanup Statement

172 Mark the items that characterize some primary differences between objects and functions

(More than one answer is correct)

-
- ✓ A program can directly access data in the function group while access to data in an object is not possible
 - ✓ A program can only work with a single instance of the same function group versus a program can access several instances of the same object
 - ✓ Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created
 - Functions allow multiple instances of the same data objects. Objects only allow single instances of data

173 Method

-
- ✓ lcl_basepart=>display
 - lif_material~display
 - lcl_basepart->display
 - lcl_basepart~display
 - display
 - lcl_basepart~display

174 Where would the components of a class be defined

- ✓ Data Component of a program
- Logic component of a program
- ✓ Definition part of Class
- Implementation part of a class

175 When redefining methods in a subclass, what is allowed ?

(More than one answer is correct)

- ✓ Code can be changed
- Signature can be changed
- Private Static methods
- ✓ Only Instance methods

176 What would happen if the public components of a class were changed

- Inheritance becomes invalidated
- Nothing. The class maintains it's own status
- private components will also need to be changed
- ✓ Outside Users may have to make changes to to their components to reflect the changes

177 How can a program access private attributes of an object

- ✓ Only by methods of the specific object itself
- By methods of a different object within the same Program
- By methods of a different instance of the same object
- From outside the class

178 Mark the items that characterize the Methods of a Class

(More than one answer is correct)

- ✓ Only pass return codes to the calling program
- ✓ Can be defined with a parameter interface
- ✓ Can change the state of an object

- ✓ Can access only public attributes in their class
- Can access all attributes in their class

179 Identify the Characteristics of a Final Class

- contains final methods implicitly
- No answers are correct
- methods cannot be explicitly designated as FINAL
- ✓ all answers are correct
- cannot have subclasses

180 What items are true about Inheritance

(More than one answer is correct)

- ✓ Superclass private components are visible to all subclasses
- ✓ Superclass protected components are visible to all subclasses
- ✓ Superclass public components are visible to all classes
- Superclass private components are visible only within the subclasses

181 What items are true about Inheritance

(More than one answer is correct)

- ✓ Superclass private components are visible to all subclasses
- ✓ Superclass public components are visible to all classes
- ✓ Superclass private components are visible only within the subclasses
- ✓ Superclass protected components are visible to all subclasses

182 Define Polymorphism

(More than one answer is correct)

- ✓ the same method is implemented in different ways by redefining the method in subclasses
- ✓ it is a characteristic when objects from different classes react differently to the same method call
- ✓ it is a characteristic when methods of the same class react differently to the same method call
- ✓ it is a characteristic when methods from different classes react differently to the same interface
- ✓ it is one of the main strengths of inheritance

183 Refer to the following code and Select the VALID method call

```

Class lcl_course definition.
Public section.
    data:      course_name(12) type c.
    methods: display_price
              importing im_course_name type string.

Private section.

    Data:      price                type P value 100.
    constants: c_objects101(10) type c value 'OBJECTS101'.

```

```
endclass.
```

```
class lcl_course implementation.
```

```
method display_price.
  course_name = im_course_name.
  If course_name = c_objects101.
    Write: price.
  Endif.
endmethod.
```

```
endclass.
```

```
Data obj_course type ref to lcl_course.
```

```
start-of-selection.
```

```
  create object obj_course.
```

Call method obj_course->display_price exporting
course_name = 'OBJECTS101'.

✓

Call method obj_course->display_price exporting
im_course_name = 'OBJECTS101'.

Call method obj_course->display_price exporting
im_course_name = c_objects101.

Call method obj_course->display_price importing
im_course_name = 'OBJECTS101'.

184

Mark the items that characterize some primary differences between
objects and functions

(More than one answer is correct)

✓

Calling a function loads the entire function group
implicitly into memory whereas instances of an
object are generated explicitly when an object is
created

A program can directly access data in the function
group while access to data in an object is not
possible

Functions allow multiple instances of the same data
objects. Objects only allow single instances of data

✓

A program can only work with a single instance of
the same function group versus a program can
access several instances of the same object

185 A MOVE_CAST_ERROR runtime error just occurred. Identify the cause.

- ✓ Super class and subclass both point to an instance of the same class type
- Super class method is called from the subclass
- Subclass reference variable corresponds to the superclass reference variable
- ✓ Casting a super class to a subclass when superclass does not point to an instance of the subclass type

186 What name is always given to a static constructor ?

- static_constructor
- constructor
- class=>constructor
- ✓ class_constructor

187 What is the only component that is implemented in the implementation part of a class

- Interface
- Object
- Attribute
- ✓ Method
- Event

188 Identify the one addition that is not part of the interface of a method

- ✓ Result
- Returning
- Exception
- Importing

189 Mark the invalid attribute definitions

TAW10_2-2

```
class lcl_course definition.  
  
10 public section.  
20 Data: school(20) type c,  
30     Supervisor type string value ADAMS ,  
40     Price(3) type p decimals 2 value 100 READ-ONLY.  
50 types: type_category(15) type c,  
60     type_name(10) type c.  
  
70 constants: write_position type i value 10.  
80 class-data: course_count type i.  
90 private section.  
100 data: category(15) type c,  
110     name(10) type c.  
120     courseid like mara-matnr.  
  
endclass.
```

✓

- 30,80
- 40,70
- 40, 120
- 30,120
- 70,80

190 **What implications exist when private components of a class are changed**

✓

- Users of the private components must change their interface
- Any programs accessing the class must also change
- None of the answers are correct
- Programs are insulated from change

TAW10_2-2

191 A public attribute 'color' is added to a superclass. A subclass already has the same attribute 'color'. What is the outcome ?

(More than one answer is correct)

- ✓ A runtime error will occur
- ✓ A syntax message will occur
- ✓ The subclass is invalidated
- The superclass is invalidated

192 Changing the view of an instance of a class with more details is referred to as

- up cast
- narrowing cast
- ✓ widening cast
- dynamic referencing

193 What statement will request memory to be allocated to an object

- Create Constructor
- ✓ Create Object
- Call Method
- Call Constructor

194 What items are true about Inheritance

(More than one answer is correct)

- ✓ Superclass public components are visible to all classes
- ✓ Superclass protected components are visible to all subclasses
- Superclass private components are visible to all subclasses
- Superclass private components are visible only within the subclasses

195 Constructors have special considerations. Identify the incorrect statement below.

- ✓ Only Import and Exception Parameters are allowed
- ✓ A class can have multiple constructors
- ✓ Generally, constructor methods can not be called
- ✓ The Constructor must defined in the Public section

196 A MOVE_CAST_ERROR runtime error just occurred. Identify the cause.

- ✓ Super class and subclass both point to an instance of the same class type
- ✓ Super class method is called from the subclass
- ✓ Casting a super class to a subclass when superclass does not point to an instance of the subclass type
- ✓ Subclass reference variable correpsonds to the superclass reference variable

197 Select the answers that apply to static methods and instance methods

(More than one answer is correct)

- ✓ Static methods MUST be addressed by object reference after instantiation
- ✓ Instance methods MUST be addressed by class name
- ✓ Static methods MUST be addressed by class_name even when object is instantiated
- ✓ Instance methods MUST be addressed by object ref after instantiation

198 What component provides the Point of Contact for outside users

- ✓ Private Attributes
- ✓ Method Signature
- ✓ Public Attributes
- ✓ Instantiated Object

199 In the context of relationship between Super and Sub classes, identify the statements which apply

(More than one answer is correct)

- ✓ Superclass does not know its subclasses
- Subclass does not know its superclass
- A superclass is a specialization of a subclass
- A change in a superclass does not automatically get realized in the subclass
- ✓ A subclass is a specialization of a superclass

200 In object orientation, the term USER includes

- ✓ All of the answers are correct
- Events
- Methods
- Attributes
- None of the answers are correct

TAW10_2-2

- 201 What statement will request memory to be allocated to an object
-
- ✓ Create Object
Call Constructor
Call Method
Create Constructor
- 202 Mark the item that is NOT true about the handler table
-
- ✓ There is a separate handler table for every object that has defined events
Registered Methods in the handler table can only be triggered by RAISE EVENT i.e. not by CALL METHOD
A single SET Handler command can be used to register multiple handler methods in the handler table
Event handler methods are called in the sequence that they were registered in the handler table
- 203 Changing the view of an instance of a class with more details is referred to as
-
- ✓ up cast
narrowing cast
dynamic referencing
widening cast
- 204 What is the only component that is implemented in the implementation part of a class
-
- ✓ Interface
Attribute
Method
Object

Event

205 A MOVE_CAST_ERROR runtime error just occurred. Identify the cause.

✓ Super class method is called from the subclass
 Super class and subclass both point to an instance of the same class type
 Subclass reference variable corresponds to the superclass reference variable
 Casting a super class to a subclass when superclass does not point to an instance of the subclass type

206 What component of a class guarantees its own consistency

✓ private attributes
 static methods
 functional methods
 public attributes

207 Your program has registered several handler methods. How does the program know what methods are available for execution when an event is triggered

✓ It is determined by the RAISE Event command the system looks for registered handler methods In the registry table and processes those that are registered for the event
 the system looks for registered handler methods In the event handler internal table and processes those that are registered for the event
 The methods defined in the Class Definition listen for raised events and respond when an event is triggered

208 Identify the requirements that determine when an object gets deleted by garbage collection

(More than one answer is correct)

- ✓ When objects can no longer be addressed from main memory
- ✓ When all active objects are marked
- ✓ When none of its methods are registered as event handlers
- ✓ When there are no more references pointing to an object

209 Refer to the following code and identify the statements that are TRUE

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
    CLASS-METHODS: list_prices_and_discounts.
ENDCLASS.
```

```
CLASS lcl_course IMPLEMENTATION.
  METHOD get_course_name.
  ENDMETHOD.

  METHOD list_prices_and_discounts.
  ENDMETHOD.
ENDCLASS.
```

```
Data: course1 type ref to lcl_course,
      course2 type ref to lcl_course.
```

```
Start-of-selection.
```

```
Create object course1.
Course2 = course1.
```

(More than one answer is correct)

- ✓ list_prices_and_discounts is a instance method
- ✓ Only one instance of method get_course_name exists
- ✓ method list_prices_and_discounts is a static method
- ✓ Memory is reserved for 2 instances of lcl_course
- ✓ Only one instance of method list_prices_and_discounts exists
- Method list_prices_and_discounts can only be called once

210 Mark the operators used to widen cast of a class

(More than one answer is correct)

- =>
- =?
- ?TO
- =
- >
- ?=

TAW10_2-2

211 What is the only component that is implemented in the implementation part of a class

- ✓ Attribute
- Event
- Method
- Interface
- Object

212 Refer to the following code and indicate which statements are true

```
Data: cl_container type ref to cl_gui_custom_container,
      cl_grid      type ref to cl_gui_alv_grid.
```

(More than one answer is correct)

- ✓ cl_container points to the object that communicates with the container control
- cl_container points to the object that communicates with the ALV grid control
- cl_grid points to the object that communicates with the container control
- ✓ cl_grid points to the object that communicates with the ALV grid control

213 What are the rules for Event parameters

(More than one answer is correct)

- ✓ Events can only have EXPORTING parameters
- Events also allow RETURNING parameters
- ✓ EXPORTING Parameters for events can only be passed by value
- EXPORTING Parameters for events can only be passed by reference

214 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

- ✓ Classes subscribe to events
- Events subscribe to classes
- ✓ Classes trigger events
- Start-of-selection is an OO event
- Methods subscribe to classes

215 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- ✓ exist once per roll area
- cannot be shared
- ✓ does not allow for methods to be redefined in subclasses
- receive their own copy of the static attribute for each subclass

216 Identify the requirements that determine when an object gets deleted by garbage collection

(More than one answer is correct)

- ✓ When there are no more references pointing to an object
- ✓ When none of its methods are registered as event handlers
- When all active objects are marked
- ✓ When objects can no longer be addressed from main memory

217 What is true about classes and objects in Object Oriented ABAP

(More than one answer is correct)

- Classes are an instance of an object
- Objects can change their class

- ✓ Class is a template for an object
- ✓ Objects are an instance of a class

218 The concept of restricting direct access to data via hidden internal processes is best represented by which term

- ✓ Polymorphism
- Inheritance
- Encapsulation
- Instantiation

219 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.

- ✓ The signature of the method must remain the same
- Constructor methods can't be redefined
- Attributes and class methods can be redefined.
- Only instance methods can be redefined

220 When redefining methods in a subclass, what is allowed ?

(More than one answer is correct)

- ✓ Private Static methods
- Code can be changed
- Signature can be changed
- ✓ Only Instance methods

TAW10_2-2

221 What is the only component that is implemented in the implementation part of a class

- ✓ Object
- Event
- Interface
- Attribute
- Method

222 The syntax for static method specification

- ✓ Call class-method
- Call method class name =>method
- Call method class name->method
- Call Method-> class name

223 An inherited class :

(More than one answer is correct)

- ✓ can add components over and above the superclass
- can access the inherited private components
- ✓ can redefine the public methods of the superclass
- can not access the protected components
- can remove superclass components

224 Mark the items that characterize the Methods of a Class

(More than one answer is correct)

- ✓ Only pass return codes to the calling program
- Can access all attributes in their class
- ✓ Can be defined with a parameter interface
- Can access only public attributes in their class
- ✓ Can change the state of an object

225 Global Class cl_course has been defined using the class builder. The development class is ZCL. What is the key entry in the repository table TADIR

- ✓
- R3TR GLOB CLASS
 - R3TR cl_course
 - R3TR CLAS cl_course
 - R3TR ZCL CLASS
 - None of the answers are correct

226 What implications exist when private components of a class are changed

- ✓
- Any programs accessing the class must also change
 - Programs are insulated from change
 - Users of the private components must change their interface
 - None of the answers are correct

227 Mark the invalid attribute definitions

```
class lcl_course definition.

10 public section.
20   Data: school(20)   type c,
30         Supervisor  type string value ADAMS ,
40         Price(3)    type p decimals 2 value 100 READ-ONLY.
50   types: type_category(15) type c,
60         type_name(10)      type c.

70   constants: write_position type i value 10.
80   class-data: course_count type i.
90 private section.
100  data: category(15) type c,
110         name(10)      type c.
120         courseid      like mara-matnr.

endclass.
```

- 70,80
- 40,70
- 40, 120

✓ 30,120
30,80

228 How can a program access private attributes of an object

From outside the class
By methods of a different object within the same Program
By methods of a different instance of the same object
✓ Only by methods of the specific object itself

229 A public attribute 'color' is added to a superclass. A subclass already has the same attribute 'color'. What is the outcome ?

(More than one answer is correct)

✓ The superclass is invalidated
A syntax message will occur
✓ The subclass is invalidated
A runtime error will occur

230 Refer to the following code and Select the VALID method call

```
Class lcl_course definition.
  Public section.
    data:      course_name(12)  type c.
    methods: display_price
              importing im_course_name type string.

  Private section.

    Data:      price              type P value 100.
    constants: c_objects101(10) type c value 'OBJECTS101'.

endclass.

class lcl_course implementation.

  method display_price.
    course_name = im_course_name.
    If course_name = c_objects101.
```

TAW10_2-2

```
        Write: price.  
    Endif.  
endmethod.  
  
endclass.  
  
Data obj_course type ref to lcl_course.  
  
start-of-selection.  
  
    create object obj_course.
```



Call method obj_course->display_price exporting
im_course_name = 'OBJECTS101'.
Call method obj_course->display_price exporting
course_name = 'OBJECTS101'.
Call method obj_course->display_price exporting
im_course_name = c_objects101.
Call method obj_course->display_price importing
im_course_name = 'OBJECTS101'.

- 231 Choose the correct redefinition of the superclass method in class `lcl_super_course`

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
*Sub Class Method ReDefinition
A
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
B
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
C
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

```
D
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

- SubClass Definition A
 SubClass Definition B
 SubClass Definition D
 SubClass Definition C

232 An inherited class :

(More than one answer is correct)

- ✓ can access the inherited private components
- can not access the protected components
- ✓ can add components over and above the superclass
- can redefine the public methods of the superclass
- can remove superclass components

233 Initializing an object in a subclass requires that the constructor of the superclass is first called. Identify the correct syntax.

- Call Method Constructor-> Super
- Call Method Super Constructor
- Call Method Constructor
- ✓ Call Method Super-> Constructor

234 In the context of relationship between Super and Sub classes, identify the statements which apply

(More than one answer is correct)

- ✓ Superclass does not know its subclasses
- A change in a superclass does not automatically get realized in the subclass
- ✓ A superclass is a specialization of a subclass
- A subclass is a specialization of a superclass
- Subclass does not know its superclass

235 When redefining methods in a subclass, what is allowed ?

(More than one answer is correct)

- Private Static methods
- Signature can be changed
- ✓ Code can be changed

✓ Only Instance methods

236 What are the rules for Event parameters

(More than one answer is correct)

✓ Events also allow RETURNING parameters
 Events can only have EXPORTING parameters
 EXPORTING Parameters for events can only be passed by reference
 ✓ EXPORTING Parameters for events can only be passed by value

237 How can a program access private attributes of an object

✓ By methods of a different object within the same Program
 From outside the class
 Only by methods of the specific object itself
 By methods of a different instance of the same object

238 What mechanism is used to define common components of different classes in one place

✓ Interface
 Class Definition
 Create Object
 Raise Event

239 Finish the sentence. Propogating exceptions requires

✓ the Raising cx_class parameter as part of the method signature of the calling method
 the Raising cx_class parameter as part of the method signature where the exception is raised
 a Cleanup Statement

TAW10_2-2

a handler for the exception

240 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.  
  
10 public section.  
20   Data: Price(3) type p decimals 2  
           value 100 READ-ONLY.  
30   Types: type_category(15) type C READ-ONLY.  
40   Constants: write_position type I value 10 READ-ONLY.  
  
50 private section.  
60   data: category(15) type C READ-ONLY,  
70   class-data: course_count type I READ-ONLY.  
  
endclass.
```

30
50
60
20
40



TAW10_2-2

241 Select the answers that apply to static methods and instance methods

(More than one answer is correct)

- ✓ Static methods MUST be addressed by object reference after instantiation
- ✓ Static methods MUST be addressed by class_name even when object is instantiated
- Instance methods MUST be addressed by class name
- ✓ Instance methods MUST be addressed by object ref after instantiation

242 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.

10 public section.
20   Data: Price(3) type p decimals 2
           value 100 READ-ONLY.
30   Types: type_category(15) type C READ-ONLY.
40   Constants: write_position type I value 10 READ-ONLY.

50 private section.
60   data: category(15) type C READ-ONLY,
70   class-data: course_count type I READ-ONLY.

endclass.
```

- 30
- 60
- ✓ 20
- 40
- 50

243 Identify the one addition that is not part of the interface of a method

Importing

- ✓ Exception
Result
Returning
- 244 What implications exist when private components of a class are changed
-
- ✓ Any programs accessing the class must also change
Programs are insulated from change
None of the answers are correct
Users of the private components must change their interface
- 245 Select the term used for Classes that can implement the same method differently
-
- ✓ encapsulation
casting
polymorphism
inheritance
instantiation
- 246 What component of a class guarantees its own consistency
-
- ✓ static methods
private attributes
public attributes
functional methods
- 247 Changing the view of an instance of a class with more details is referred to as
-
- ✓ up cast
narrowing cast
widening cast
dynamic referencing

- 248 A program needs to gain access to the public attributes of class lcl_course. Identify the statements that are valid.
-

```
class lcl_course definition.
  public section.
    data: name(15)    type c value 'ABAPObjects101'.
    class-data price type p value 100.

  private section.
    data: category(10) type C value 'Objects'.

endclass.

data: course1      type ref to lcl_course,
      course_name  type string,
      course_price type p,
      course_category type string.

**INSTANTIATION OMITTED **
```

(More than one answer is correct)

- ✓ course_name = course1=>name.
- ✓ course_price = lcl_course=>price.
- ✓ course_name = course1->name.
- ✓ name can not be accessed unless course1 is instantiated
- course_name = name

- 249 What component provides the Point of Contact for outside users
-

- Instantiated Object
- Private Attributes
- Method Signature
- ✓ Public Attributes

- 250 When redefining methods in a subclass, what is allowed ?
-

(More than one answer is correct)

- ✓ Code can be changed

TAW10_2-2

Signature can be changed
Private Static methods
Only Instance methods



TAW10_2-2

251 A public attribute 'color' is added to a superclass. A subclass already has the same attribute 'color'. What is the outcome ?

(More than one answer is correct)

- ✓ A runtime error will occur
- ✓ A syntax message will occur
- ✓ The superclass is invalidated
- ✓ The subclass is invalidated

252 In the context of Triggering and Handling of Events, mark those which apply

(More than one answer is correct)

- ✓ An event is defined in the Implementation of a Class
- ✓ Events can be triggered with the Trigger Event command
- ✓ Methods must be registered to an event in order to be called when the event is triggered
- ✓ Event Triggering using Raise Event can be issued in a method

253 Where is the visibility of class components defined

- ✓ Class Implementation
- Class Definition
- Class Methods
- Object Instance

254 Refer to the following code and indicate which statements are true

```
Data: cl_container type ref to cl_gui_custom_container,
      cl_grid      type ref to cl_gui_alv_grid.
```

(More than one answer is correct)

- cl_grid points to the object that communicates with the container control
 cl_container points to the object that communicates with the ALV grid control
 ✓ cl_grid points to the object that communicates with the ALV grid control
 ✓ cl_container points to the object that communicates with the container control
- 255 Constructors have special considerations. Identify the incorrect statement below.
-
- ✓ Only Import and Exception Parameters are allowed
 A class can have multiple constructors
 The Constructor must defined in the Public section
 Generally, constructor methods can not be called
- 256 Method
-
- ✓ lcl_basepart->display
 lcl_basepart~display
 display
 lcl_basepart~display
 lcl_basepart=>display
 lif_material~display
- 257 Identify the requirements that determine when an object gets deleted by garbage collection
-
- (More than one answer is correct)**
- ✓ When none of its methods are registered as event handlers
 ✓ When objects can no longer be addressed from main memory
 ✓ When there are no more references pointing to an object
 When all active objects are marked
- 258 What are the rules for Event parameters

(More than one answer is correct)

- ✓ EXPORTING Parameters for events can only be passed by value
- Events also allow RETURNING parameters
- ✓ Events can only have EXPORTING parameters
- EXPORTING Parameters for events can only be passed by reference

259 Identify the characteristics of the self reference ME

- ✓ Self references allow an object to give other objects a reference to it.
- All answers are correct
- None of the answers are correct
- The reference ME can be used to determine the dynamic type of the reference variable in the debugger
- The self-reference ME can be used to access individual components

260 The syntax for instance method specification is

(More than one answer is correct)

- Call Method->Objref
- Call method Objref=>method
- ✓ Call method Objref->method
- ✓ Call method (from within another instance method)

TAW10_2-2

261 What mechanism is used to define common components of different classes in one place

- ✓ Raise Event
- Create Object
- Class Definition
- Interface

262 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- ✓ receive their own copy of the static attribute for each subclass
- cannot be shared
- ✓ does not allow for methods to be redefined in subclasses
- ✓ exist once per roll area

263 What is the number of superclasses that can exist for a given subclass

- only many
- 1 or many
- none
- ✓ only 1

264 What would happen if the public components of a class were changed

- ✓ Inheritance becomes invalidated
- Outside Users may have to make changes to to their components to reflect the changes
- Nothing. The class maintains it's own status
- private components will also need to be changed

265 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

- ✓ Local Classes are available only to programs in the same development class
- ✓ Global classes are centrally available to all ABAP programs
- ✓ Local Classes are available only to the program where the class is defined
- Global Classes are available only from programs belonging to the same development class

266 Choose the short form of the method call below

call method `rf_car->calculate_cost importing ex_size = v_size.`

- ✓ `rf_car->calculate_cost(importing ex_size = v_size).`
- `calculate_cost(importing ex_size = v_size).`
- `rf_car->calculate_cost(importing ex_size = v_size).`
- `rf_car->calculate_cost importing ex_size = v_size.`

267 A public attribute 'color' is added to a superclass. A subclass already has the same attribute 'color'. What is the outcome ?

(More than one answer is correct)

- ✓ A runtime error will occur
- ✓ The superclass is invalidated
- ✓ A syntax message will occur
- ✓ The subclass is invalidated

268 Identify the valid statements that will write out the Static Attributes in the following code

`class lcl_course definition.`

`public section.`

`data: name(15) type c value 'ABAPObjects101'.`

TAW10_2-2

```
class-data price      type p value 100.  
  
private section.  
  data: category(10)  type C value 'Objects'.  
  
endclass.  
  
data: course1        type ref to lcl_course,  
      course_name    type string,  
      course_price   type p,  
      course_category type string.
```

(More than one answer is correct)

- ✓ write lcl_course=>price.
- ✓ course_price = lcl_course=>price. Write course_price.
- write lcl_course->price.
- write: price.

269 Which statement will create an instance of a class

- ✓ Class my_class Definition.
Create Object my_object
Data: my_object TYPE REF TO my_class
Class my_class Implementation

270 Pick the syntax for a functional method with only 1 parameter

(More than one answer is correct)

- ✓ refvar->method returning()
- ✓ refvar->method(im = p1)
- ✓ refvar->method(p1)
- refvar->method receiving()

TAW10_2-2

271 Initializing an object in a subclass requires that the constructor of the superclass is first called. Identify the correct syntax.

- Call Method Constructor
- Call Method Super Constructor
- Call Method Constructor-> Super
- ✓ Call Method Super-> Constructor

272 Select the answers that apply to static methods and instance methods

(More than one answer is correct)

- ✓ Instance methods MUST be addressed by object ref after instantiation
- ✓ Static methods MUST be addressed by class_name even when object is instantiated
- Instance methods MUST be addressed by class name
- Static methods MUST be addressed by object reference after instantiation

273 Global Class cl_course has been defined using the class builder. The development class is ZCL. What is the key entry in the repository table TADIR

- None of the answers are correct
- ✓ R3TR CLAS cl_course
- R3TR GLOB CLASS
- R3TR ZCL CLASS
- R3TR cl_course

274 Pick the syntax for a functional method with only 1 parameter

(More than one answer is correct)

refvar->method receiving()

- ✓ refvar->method(p1)
- ✓ refvar->method(im = p1)
- refvar->method returning()

275 Mark the operators used to widen cast of a class

(More than one answer is correct)

- >
- =>
- =?
- ✓ ?TO
- =
- ✓ ?=

276 What is the only component that is implemented in the implementation part of a class

- Event
- Interface
- Attribute
- ✓ Method
- Object

277 Using the UML modeling language for ABAP OO design, refer to the following and indicate the visibility of the components

```

-----
| cl_myclass |
-----
| +city      |
| #address   |
|-----|
| + get_city() |
| - display_addr() |
|           |
|-----|

```

(More than one answer is correct)

- ✓ display_address is a static public method
- address is protected attribute

- ✓ get_city is a public attribute
- display_address is a public method
- ✓ city is a public attribute
- display_address is a private method

278 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- receive their own copy of the static attribute for each subclass
- cannot be shared
- ✓ does not allow for methods to be redefined in subclasses
- ✓ exist once per roll area

279 Identify the ABAP OO Event signature protocols

(More than one answer is correct)

- Exporting parameters can only be passed by reference
- ✓ Exporting parameters can only be passed by value
- Events can only have importing Parameters
- ✓ Events can only have exporting Parameters

280 When redefining methods in a subclass, what is allowed ?

(More than one answer is correct)

- Private Static methods
- ✓ Code can be changed
- Signature can be changed
- ✓ Only Instance methods

281 In the context of Triggering and Handling of Events, mark those which apply

(More than one answer is correct)

- ✓ Methods must be registered to an event in order to be called when the event is triggered
An event is defined in the Implementation of a Class
Events can be triggered with the Trigger Event command
- ✓ Event Triggering using Raise Event can be issued in a method

282 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

- ✓ Start-of-selection is an OO event
- ✓ Classes subscribe to events
Events subscribe to classes
- ✓ Classes trigger events
Methods subscribe to classes

283 What can be said about the lifetime of an object

- ✓ All answers are correct
An object exists for as long as it is being used in the program
An object exists as long as at least one method of the object is registered as an event handler.
An object exists as long as at least one reference points to it

284 Where is the visibility of class components defined

- Object Instance
- Class Methods
- Class Implementation
- ✓ Class Definition

285 Changing the view of an instance of a class with more details is referred to as

- ✓ narrowing cast
- dynamic referencing
- up cast
- ✓ widening cast

286 The syntax for instance method specification is

(More than one answer is correct)

- ✓ Call Method->Objref
- Call method (from within another instance method)
- Call method Objref=>method
- ✓ Call method Objref->method

287 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

- ✓ Global classes are centrally available to all ABAP programs
- ✓ Local Classes are available only to the program where the class is defined
- Local Classes are available only to programs in the same development class
- Global Classes are available only from programs belonging to the same development class

288 What statement will request memory to be allocated to an object

- ✓ Create Object

Call Constructor
Create Constructor
Call Method

289 What name is always given to a static constructor ?

- static_constructor
- class=>constructor
- constructor
- ✓ class_constructor

290 Mark the items that characterize some primary differences between objects and functions

(More than one answer is correct)

- ✓ A program can directly access data in the function group while access to data in an object is not possible
- ✓ Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created
- ✓ A program can only work with a single instance of the same function group versus a program can access several instances of the same object
- Functions allow multiple instances of the same data objects. Objects only allow single instances of data

291 Choose the correct redefinition of the superclass method in class `lcl_super_course`

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
*Sub Class Method ReDefinition
A
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
B
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
C
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

```
D
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

SubClass Definition A
 SubClass Definition C
 SubClass Definition B
 SubClass Definition D



292 In ABAP objects, which component is said to determine an object's behavior

- ✓ class
- method
- implementation
- signature

293 What implications exist when private components of a class are changed

- ✓ Any programs accessing the class must also change
- Users of the private components must change their interface
- Programs are insulated from change
- None of the answers are correct

294 Mark the operators used to widen cast of a class

(More than one answer is correct)

- ✓ ?TO
- =>
- =
- =?
- ✓ ?=
- >

295 What is true about classes and objects in Object Oriented ABAP

(More than one answer is correct)

- ✓ Class is a template for an object
- Objects can change their class
- ✓ Objects are an instance of a class
- Classes are an instance of an object

296 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

- ✓ Local Classes are available only to programs in the same development class
- Global Classes are available only from programs belonging to the same development class
- ✓ Local Classes are available only to the program where the class is defined
- Global classes are centrally available to all ABAP programs

297 In the following method, what other parameters are allowed

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name
              IMPORTING im_name type string
              Returning value(student_count) type I.
ENDCLASS.
```

- ✓ Changing
- Exceptions
- Receiving
- Exporting

298 Identify the characteristics of the self reference ME

- ✓ The reference ME can be used to determine the dynamic type of the reference variable in the debugger
- The self-reference ME can be used to access individual components
- Self references allow an object to give other objects a reference to it.
- ✓ All answers are correct
- None of the answers are correct

299 A public attribute 'color' is added to a superclass. A subclass already has the same attribute 'color'. What is the outcome ?

(More than one answer is correct)

- ✓ A runtime error will occur
- ✓ The superclass is invalidated
- ✓ A syntax message will occur
- ✓ The subclass is invalidated

300 What can be said about the lifetime of an object

- ✓ An object exists for as long as it is being used in the program
- An object exists as long as at least one reference points to it
- An object exists as long as at least one method of the object is registered as an event handler.
- All answers are correct

TAW10_2-2

301 What component provides the Point of Contact for outside users

- ✓ Method Signature
- Private Attributes
- Instantiated Object
- Public Attributes

302 An inherited class :

(More than one answer is correct)

- ✓ can access the inherited private components
- ✓ can add components over and above the superclass
- can redefine the public methods of the superclass
- can not access the protected components
- can remove superclass components

303 In object orientation, the term USER includes

- Events
- Attributes
- None of the answers are correct
- ✓ All of the answers are correct
- Methods

304 A program needs to gain access to the public attributes of class lcl_course. Identify the statements that are valid.

```
class lcl_course definition.

    public section.

data:      name(15) type c value 'ABAPObjects101'.
          class-data price      type p value 100.

    private section.
```

TAW10_2-2

```
data: category(10) type C value 'Objects'.

endclass.

data: course1          type ref to lcl_course,
      course_name      type string,
      course_price     type p,
      course_category  type string.

Create Object course1.
```

(More than one answer is correct)

- ✓ course_name = course1->name.
- ✓ course_price = lcl_course->price.
- ✓ course_name = name
- ✓ course_name = course1=>name.
- ✓ course_price = lcl_course=>price.

305 Pick the syntax for a functional method with only 1 parameter

(More than one answer is correct)

- ✓ refvar->method(p1)
- ✓ refvar->method(im = p1)
- ✓ refvar->method receiving()
- ✓ refvar->method returning()

306 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.

10 public section.
20   Data: Price(3) type p decimals 2
           value 100 READ-ONLY.
30   Types: type_category(15) type C READ-ONLY.
40   Constants: write_position type I value 10 READ-ONLY.

50 private section.
60   data: category(15)          type C READ-ONLY,
70   class-data: course_count  type I READ-ONLY.

endclass.
```

- ✓
- 60
 - 30
 - 20
 - 40
 - 50

307 Select the answers that apply to static methods and instance methods

(More than one answer is correct)

- ✓ Static methods MUST be addressed by object reference after instantiation
- ✓ Static methods MUST be addressed by class_name even when object is instantiated
- Instance methods MUST be addressed by class name
- ✓ Instance methods MUST be addressed by object ref after instantiation

308 What syntax provides access to individual components of a class within the class

(More than one answer is correct)

- ✓ CALL METHOD ME->
- ✓ ME->
- object instance->ME->
- CALL METHOD object instance->ME->

309 How can a program access private attributes of an object

- ✓ Only by methods of the specific object itself
- By methods of a different object within the same Program
- From outside the class
- By methods of a different instance of the same object

310 What are the rules for Event parameters

(More than one answer is correct)

- ✓ EXPORTING Parameters for events can only be passed by reference
- ✓ EXPORTING Parameters for events can only be passed by value
- Events also allow RETURNING parameters
- ✓ Events can only have EXPORTING parameters

TAW10_2-2

311 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.

- ✓
- Only instance methods can be redefined
 - Constructor methods can't be redefined
 - The signature of the method must remain the same
 - Attributes and class methods can be redefined.

312 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.
10 public section.
20   Data: Price(3) type p decimals 2
        value 100 READ-ONLY.
30   Types: type_category(15) type C READ-ONLY.
40   Constants: write_position type I value 10 READ-ONLY.

50 private section.
60   data: category(15) type C READ-ONLY,
70   class-data: course_count type I READ-ONLY.

endclass.
```

- ✓
- 20
 - 30
 - 60
 - 40
 - 50

313 What triggers an event

- ✓
- Raise Event Inside the Method
 - None of the answers are correct
 - Call Method
 - All answers are correct
 - Raise Event

314 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

- ✓ Methods can not be implemented in the subclass
- ✓ Can only be implemented through an Interface
- Methods can only be implemented in the subclass
- Cannot be instantiated

315 Method

- lcl_basepart~display
- lcl_basepart->display
- lcl_basepart=>display
- lcl_basepart~display
- display
- ✓ lif_material~display

316 Select the term used for Classes that can implement the same method differently

- instantiation
- casting
- ✓ polymorphism
- encapsulation
- inheritance

317 In the context of relationship between Super and Sub classes, identify the statements which apply

(More than one answer is correct)

- ✓ A superclass is a specialization of a subclass
- ✓ Superclass does not know its subclasses
- A subclass is a specialization of a superclass
- A change in a superclass does not automatically get realized in the subclass

Subclass does not know it's superclass

318 Local Class lcl_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR

- ✓
- R3TR LOCAL CLASS
 - None of the answers are correct
 - R3TR lcl_class
 - R3TR ZCL CLASS
 - R3TR CLASS

319 What component provides the Point of Contact for outside users

- ✓
- Instantiated Object
 - Method Signature
 - Private Attributes
 - Public Attributes

320 Refer to the following code and Select the VALID method call

```

Class lcl_course definition.
  Public section.
    data:      course_name(12)  type c.
    methods:  display_price
              importing im_course_name type string.

  Private section.

    Data:      price              type P value 100.
    constants: c_objects101(10) type c value 'OBJECTS101'.

endclass.

class lcl_course implementation.

  method display_price.
    course_name = im_course_name.
    If course_name = c_objects101.
      Write: price.
    Endif.
  endmethod.

```

```
endclass.
```

```
Data obj_course type ref to lcl_course.
```

```
start-of-selection.
```

```
    create object obj_course.
```

```
        Call method obj_course->display_price importing  
        im_course_name = 'OBJECTS101'.
```

```
        Call method obj_course->display_price exporting  
        im_course_name = c_objects101.
```

```
        Call method obj_course->display_price exporting  
        course_name = 'OBJECTS101'.
```

✓

```
        Call method obj_course->display_price exporting  
        im_course_name = 'OBJECTS101'.
```

TAW10_2-2

321 What is contained in a class that does not exist in an interface

- ✓ attributes
- implementation
- method
- definition

322 When redefining methods in a subclass, what is allowed ?

(More than one answer is correct)

- ✓ Signature can be changed
- Code can be changed
- ✓ Only Instance methods
- Private Static methods

323 Identify the Characteristics of a Final Class

- cannot have subclasses
- contains final methods implicitly
- No answers are correct
- ✓ all answers are correct
- methods cannot be explicitly designated as FINAL

324 The syntax for static method specification

- Call Method-> class name
- ✓ Call method class name =>method
- Call method class name->method
- Call class-method

325 What triggers an event

- Raise Event Inside the Method
Call Method
Raise Event
- ✓ All answers are correct
None of the answers are correct
- 326 Your program has registered several handler methods. How does the program know what methods are available for execution when an event is triggered
-
- ✓ The methods defined in the Class Definition listen for raised events and respond when an event is triggered
the system looks for registered handler methods In the event handler internal table and processes those that are registered for the event
It is determined by the RAISE Event command
the system looks for registered handler methods In the registry table and processes those that are registered for the event
- 327 A MOVE_CAST_ERROR runtime error just occurred. Identify the cause.
-
- ✓ Subclass reference variable correponds to the superclass reference variable
Super class and subclass both point to an instance of the same class type
Casting a super class to a subclass when superclass does not point to an instance of the subclass type
Super class method is called from the subclass
- 328 Identify the requirements that determine when an object gets deleted by garbage collection
-
- (More than one answer is correct)**
- ✓ When objects can no longer be addressed from main memory
- ✓

- When there are no more references pointing to an object
 When all active objects are marked
 ✓ When none of its methods are registered as event handlers
- 329 In the context of polymorphism and interfaces, mark the item that is NOT true
-

- ✓ a class can implement any number of interfaces
 interfaces describe the point of contact of a class
 interfaces contain their own implementation part
 the user is protected from the actual implementations

- 330 A program needs to gain access to the public attributes of class lcl_course. Identify the statements that are valid.
-

```
class lcl_course definition.

    public section.

    data:      name(15) type c value 'ABAPObjects101'.
             class-data price    type p value 100.

    private section.

    data: category(10)  type C value 'Objects'.

endclass.

data: course1          type ref to lcl_course,
      course_name      type string,
      course_price     type p,
      course_category  type string.
```

Create Object course1.

(More than one answer is correct)

- ✓ course_price = lcl_course->price.
 ✓ course_name = course1->name.
 course_name = name
 course_name = course1=>name.
 ✓ course_price = lcl_course=>price.

TAW10_2-2

331 What can be said about the lifetime of an object

✓

An object exists as long as at least one method of the object is registered as an event handler.

All answers are correct

An object exists for as long as it is being used in the program

An object exists as long as at least one reference points to it

332 What syntax provides access to individual components of a class within the class

(More than one answer is correct)

✓

object instance->ME->

ME->

✓

CALL METHOD object instance->ME->

CALL METHOD ME->

333 What statement will request memory to be allocated to an object

✓

Create Object

Call Constructor

Call Method

Create Constructor

334 A public attribute 'color' is added to a superclass. A subclass already has the same attribute 'color'. What is the outcome ?

(More than one answer is correct)

✓

A runtime error will occur

✓

A syntax message will occur

The subclass is invalidated

The superclass is invalidated

335 Choose the short form of the method call below

call method rf_car->calculate_cost importing ex_size = v_size.

- ✓ calculate_cost(importing ex_size = v_size).
- rf_car->calculate_cost (importing ex_size = v_size).
- ✓ rf_car->calculate_cost(importing ex_size = v_size).
- rf_car->calculate_cost importing ex_size = v_size.

336 In the context of polymorphism and interfaces, mark the item that is NOT true

- the user is protected from the actual implementations
- ✓ interfaces contain their own implementation part
- interfaces describe the point of contact of a class
- a class can implement any number of interfaces

337 The syntax for instance method specification is

(More than one answer is correct)

- ✓ Call method Objref->method
- Call Method->Objref
- ✓ Call method (from within another instance method)
- Call method Objref=>method

338 Initializing an object in a subclass requires that the constructor of the superclass is first called. Identify the correct syntax.

- Call Method Super Constructor
- Call Method Constructor
- ✓ Call Method Super-> Constructor
- Call Method Constructor-> Super

339 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

- ✓ Cannot be instantiated
- Methods can not be implemented in the subclass
- Can only be implemented through an Interface
- ✓ Methods can only be implemented in the subclass

340 Where is the visibility of class components defined

- Class Implementation
- Object Instance
- Class Methods
- ✓ Class Definition

TAW10_2-2

341 What is true about classes and objects in Object Oriented ABAP

(More than one answer is correct)

- ✓ Classes are an instance of an object
- ✓ Objects are an instance of a class
- Objects can change their class
- ✓ Class is a template for an object

342 In object orientation, the term `USER` includes

- ✓ Events
- None of the answers are correct
- All of the answers are correct
- Methods
- Attributes

343 Constructors have special considerations. Identify the incorrect statement below.

- ✓ The Constructor must defined in the Public section
- Only Import and Exception Parameters are allowed
- Generally, constructor methods can not be called
- A class can have multiple constructors

344 A program needs to gain access to the public attributes of class `lcl_course`. Identify the statements that are valid.

```
class lcl_course definition.
  public section.
    data: name(15)    type c value 'ABAPObjects101'.
          class-data price type p value 100.

  private section.
    data: category(10) type C value 'Objects'.
```

```

endclass.

data: course1      type ref to lcl_course,
      course_name  type string,
      course_price type p,
      course_category type string.

**INSTANTIATION OMITTED **

```

(More than one answer is correct)

- ✓ course_name = course1->name.
- ✓ course_name = course1=>name.
- name can not be accessed unless course1 is instantiated
- ✓ course_name = name
- ✓ course_price = lcl_course=>price.

345 Identify the Characteristics of a Final Class

- ✓ cannot have subclasses
- all answers are correct
- No answers are correct
- methods cannot be explicitly designated as FINAL
- contains final methods implicitly

346 Define Polymorphism

(More than one answer is correct)

- ✓ it is a characteristic when objects from different classes react differently to the same method call
- it is a characteristic when methods of the same class react differently to the same method call
- ✓ it is one of the main strengths of inheritance
- it is a characteristic when methods from different classes react differently to the same interface
- ✓ the same method is implemented in different ways by redefining the method in subclasses

347 Choose the correct redefinition of the superclass method in class

lcl_super_course

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
*Sub Class Method ReDefinition
A
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
B
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
C
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

```
D
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```



SubClass Definition D
 SubClass Definition A
 SubClass Definition C
 SubClass Definition B

348 An inherited class :

(More than one answer is correct)

- ✓ can redefine the public methods of the superclass
- can remove superclass components
- can access the inherited private components
- ✓ can add components over and above the superclass
- can not access the protected components

349 Identify the one addition that is not part of the interface of a method

- Returning
- Importing
- Exception
- ✓ Result

350 Identify the statement about Global Classes that is NOT true

- Access to a global class is done as a reference variable using TYPE REF TO
- Class Builder can be used to test global classes
- ✓ Programs that are available to Global Classes must be associated in Class Builder
- A method to be transported is identified in transport organiser as LIMU METH
- Global classes are stored in TADIR with key R3TR CLAS

TAW10_2-2

351 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

- ✓ Methods can not be implemented in the subclass
- ✓ Cannot be instantiated
- ✓ Can only be implemented through an Interface
- ✓ Methods can only be implemented in the subclass

352 Mark the operators used to widen cast of a class

(More than one answer is correct)

- ✓ ?TO
- ✓ =?
- ✓ ->
- ✓ ?=
- ✓ =
- ✓ =>

353 What component provides the Point of Contact for outside users

- ✓ Public Attributes
- ✓ Private Attributes
- ✓ Instantiated Object
- ✓ Method Signature

354 What would happen if the public components of a class were changed

- ✓ Nothing. The class maintains it's own status
- ✓ Outside Users may have to make changes to to their components to reflect the changes
- ✓ private components will also need to be changed
- ✓ Inheritance becomes invalidated

355 Select the answers that apply to static methods and instance methods

(More than one answer is correct)

- Instance methods **MUST** be addressed by class name
- Static methods **MUST** be addressed by object reference after instantiation
- ✓ Static methods **MUST** be addressed by class_name even when object is instantiated
- ✓ Instance methods **MUST** be addressed by object ref after instantiation

356 Identify the valid statements that will write out the Static Attributes in the following code

```
class lcl_course definition.

    public section.
        data: name(15) type c value 'ABAPObjects101'.
              class-data price      type p value 100.

    private section.
        data: category(10) type C value 'Objects'.

endclass.

data: course1      type ref to lcl_course,
      course_name  type string,
      course_price type p,
      course_category type string.
```

(More than one answer is correct)

- ✓ course_price = lcl_course=>price. Write course_price.
write: price.
- ✓ write lcl_course=>price.
write lcl_course->price.

357 Identify the characteristics of the self reference ME

- ✓ All answers are correct

Self references allow an object to give other objects a reference to it.
The reference ME can be used to determine the dynamic type of the reference variable in the debugger
None of the answers are correct
The self-reference ME can be used to access individual components

358 Where are the methods of a class implemented

- ✓ Implementation part of a class
- Definition part of Class
- Call method of the class
- Object instantiation part of a program

359 Finish the sentence. Propogating exceptions requires _____.

- ✓ a Cleanup Statement
- the Raising cx_class parameter as part of the method signature of the calling method
- the Raising cx_class parameter as part of the method signature where the exception is raised
- a handler for the exception

360 Finish the following sentence so that it is TRUE. Static Components in an inheripance relationship.....

(More than one answer is correct)

- ✓ exist once per roll area
- receive their own copy of the static attribute for each subclass
- ✓ does not allow for methods to be redefined in subclasses
- cannot be shared

TAW10_2-2

- 361 In the context of relationship between Super and Sub classes, identify the statements which apply
-

(More than one answer is correct)

- ✓ A change in a superclass does not automatically get realized in the subclass
- ✓ A superclass is a specialization of a subclass
- ✓ A subclass is a specialization of a superclass
- Subclass does not know its superclass
- Superclass does not know its subclasses

- 362 Your program has registered several handler methods. How does the program know what methods are available for execution when an event is triggered
-

- ✓ the system looks for registered handler methods In the registry table and processes those that are registered for the event
- the system looks for registered handler methods In the event handler internal table and processes those that are registered for the event
- The methods defined in the Class Definition listen for raised events and respond when an event is triggered
- It is determined by the RAISE Event command

- 363 Choose the short form of the method call below
-

`call method rf_car->calculate_cost importing ex_size = v_size.`

- ✓ `rf_car->calculate_cost importing ex_size = v_size.`
- `rf_car->calculate_cost(importing ex_size = v_size).`
- `calculate_cost(importing ex_size = v_size).`
- `rf_car->calculate_cost (importing ex_size = v_size).`

364 How can a program access private attributes of an object

- ✓ From outside the class
- ✓ Only by methods of the specific object itself
- By methods of a different instance of the same object
- By methods of a different object within the same Program

365 What component of a class guarantees its own consistency

- ✓ private attributes
- functional methods
- public attributes
- static methods

366 Mark the operators used to widen cast of a class

(More than one answer is correct)

- ✓ =
- ✓ =?
- ?TO
- ⇒
- ✓ ->
- ?=

367 Identify the statement about Global Classes that is NOT true

- Access to a global class is done as a reference variable using TYPE REF TO
- A method to be transported is identified in transport organiser as LIMU METH
- Class Builder can be used to test global classes
- Global classes are stored in TADIR with key R3TR CLAS
- ✓ Programs that are available to Global Classes must be associated in Class Builder

368 What items are true about Inheritance

(More than one answer is correct)

- ✓ Superclass public components are visible to all classes
- Superclass private components are visible to all subclasses
- Superclass private components are visible only within the subclasses
- ✓ Superclass protected components are visible to all subclasses

369 Mark the items that characterize some primary differences between objects and functions

(More than one answer is correct)

- ✓ A program can only work with a single instance of the same function group versus a program can access several instances of the same object
- ✓ Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created
- A program can directly access data in the function group while access to data in an object is not possible
- Functions allow multiple instances of the same data objects. Objects only allow single instances of data

370 Which statement will create an instance of a class

- Class my_class Implementation
- Data: my_object TYPE REF TO my_class
- Class my_class Definition.
- ✓ Create Object my_object

TAW10_2-2

371 Where would the components of a class be defined

- ✓
- Implementation part of a class
 - Data Component of a program
 - Definition part of Class
 - Logic component of a program

372 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.
10 public section.
20   Data: Price(3) type p decimals 2
        value 100 READ-ONLY.
30   Types: type_category(15) type C READ-ONLY.
40   Constants: write_position type I value 10 READ-ONLY.

50 private section.
60   data: category(15)          type C READ-ONLY,
70   class-data: course_count type I READ-ONLY.

endclass.
```

- ✓
- 60
 - 40
 - 30
 - 20
 - 50

373 What can be said about the visibility of attributes in the following code

```
CLASS lcl_course DEFINITION.
PUBLIC SECTION.
   Data: name type string.

PRIVATE SECTION.
   Data: price type course-price.

ENDCLASS.
```

(More than one answer is correct)

- ✓ price is available to methods inside the class
- name is available to methods only inside the class
- ✓ name is protected from outside access
- price is protected from outside access

374 The syntax for static method specification

- Call class-method
- Call method class name->method
- ✓ Call method class name =>method
- Call Method-> class name

375 In the context of relationship between Super and Sub classes, identify the statements which apply

(More than one answer is correct)

- ✓ A subclass is a specialization of a superclass
- A change in a superclass does not automatically get realized in the subclass
- ✓ Superclass does not know its subclasses
- A superclass is a specialization of a subclass
- Subclass does not know its superclass

376 How can a program access private attributes of an object

- ✓ Only by methods of the specific object itself
- By methods of a different object within the same Program
- From outside the class
- By methods of a different instance of the same object

377 What would happen if the public components of a class were changed

- ✓ Nothing. The class maintains it's own status
 Outside Users may have to make changes to to their
 components to reflect the changes
 private components will also need to be changed
 Inheritance becomes invalidated

378 What component provides the Point of Contact for outside users

- ✓ Method Signature
 Private Attributes
 Public Attributes
 Instantiated Object

379 Refer to the following code and indicate which statements are true

```
Data: cl_container type ref to cl_gui_custom_container,
      cl_grid      type ref to cl_gui_alv_grid.
```

(More than one answer is correct)

- ✓ cl_container points to the object that communicates
 with the container control
 cl_container points to the object that communicates
 with the ALV grid control
 cl_grid points to the object that communicates with
 the container control
- ✓ cl_grid points to the object that communicates with
 the ALV grid control

380 The concept of restricting direct access to data via hidden internal
 processes is best represented by which term

- ✓ Inheritance
 Polymorphism
 Instantiation
 Encapsulation

TAW10_2-2

381 Method

- ✓ lif_material~display
- lcl_basepart~display
- display
- lcl_basepart->display
- lcl_basepart=>display
- lcl_basepart~display

382 Identify the valid rule when calling public methods from within the class

- When calling a static method, the class name is required
- Private methods can not call public methods
- ✓ When calling a static method, the class name can be omitted
- When calling an instance method, the => operator is still required

383 Finish the following sentence so that it is TRUE. Static Components in an inheritance relationship.....

(More than one answer is correct)

- ✓ exist once per roll area
- cannot be shared
- ✓ does not allow for methods to be redefined in subclasses
- receive their own copy of the static attribute for each subclass

384 Refer to the following code and indicate which statements are true

```
Data: cl_container type ref to cl_gui_custom_container,
      cl_grid      type ref to cl_gui_alv_grid.
```

(More than one answer is correct)

- ✓ cl_grid points to the object that communicates with the container control
- ✓ cl_container points to the object that communicates with the ALV grid control
- ✓ cl_container points to the object that communicates with the container control
- ✓ cl_grid points to the object that communicates with the ALV grid control

385 Choose the correct redefinition of the superclass method in class lcl_super_course

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
*Sub Class Method ReDefinition
A
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
B
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
C
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PRIVATE SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

```
D
CLASS lcl_sub_course DEFINITION INHERITING
  FROM lcl_super_course.
  PUBLIC SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

- SubClass Definition C
 SubClass Definition B
 SubClass Definition D
 SubClass Definition A
- 386 In the context of polymorphism and interfaces, mark the item that is NOT true
-
- the user is protected from the actual implementations
 interfaces describe the point of contact of a class
 interfaces contain their own implementation part
 a class can implement any number of interfaces
- 387 Choose the short form of the method call below
-
- call method `rf_car->calculate_cost` importing `ex_size = v_size`.
- `rf_car->calculate_cost(importing ex_size = v_size)`.
`rf_car->calculate_cost (importing ex_size = v_size)`.
`rf_car->calculate_cost importing ex_size = v_size`.
`calculate_cost(importing ex_size = v_size)`.
- 388 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?
-
- Call Method Super-> mymethod.
 Call Method Superclass-> mymethod.
 You can't . Only the redefined method can be called
 Call Method mymethod.
- 389 Using the UML modeling language for ABAP OO design, refer to the following and indicate the visibility of the components
-
- ```

cl_myclass

```



```

| +city |
#address
+ get_city()
- display_addr()

```

**(More than one answer is correct)**

- ✓ display\_address is a private method
- display\_address is a public method
- ✓ address is protected attribute
- get\_city is a public attribute
- display\_address is a static public method
- ✓ city is a public attribute

390 What are the rules for Event parameters

---

**(More than one answer is correct)**

- ✓ EXPORTING Parameters for events can only be passed by value
- ✓ Events can only have EXPORTING parameters
- EXPORTING Parameters for events can only be passed by reference
- Events also allow RETURNING parameters

391 What items are true about Inheritance

---

**(More than one answer is correct)**

- ✓ Superclass public components are visible to all classes
- Superclass private components are visible to all subclasses
- ✓ Superclass protected components are visible to all subclasses
- Superclass private components are visible only within the subclasses

392 What component of a class guarantees its own consistency

---

- ✓ functional methods
- private attributes
- static methods
- public attributes

393 What is true about classes and objects in Object Oriented ABAP

---

**(More than one answer is correct)**

- Objects can change their class
- Classes are an instance of an object
- ✓ Class is a template for an object
- ✓ Objects are an instance of a class

394 How can a program access private attributes of an object

---

- From outside the class
- By methods of a different object within the same Program
- ✓ Only by methods of the specific object itself

By methods of a different instance of the same object

395 Pick the syntax for a functional method with only 1 parameter

---

**(More than one answer is correct)**

- ✓ `refvar->method(im = p1)`
- ✓ `refvar->method receiving()`
- ✓ `refvar->method(p1)`
- `refvar->method returning()`

396 A program needs to gain access to the public attributes of class `lcl_course`. Identify the statements that are valid.

---

```
class lcl_course definition.

 public section.

 data: name(15) type c value 'ABAPObjects101'.
 class-data price type p value 100.

 private section.

 data: category(10) type C value 'Objects'.

endclass.

data: course1 type ref to lcl_course,
 course_name type string,
 course_price type p,
 course_category type string.

Create Object course1.
```

**(More than one answer is correct)**

- ✓ `course_name = course1->name.`
- ✓ `course_name = course1=>name.`
- ✓ `course_price = lcl_course=>price.`
- `course_price = lcl_course->price.`
- `course_name = name`

397 Your program has registered several handler methods. How does the

program know what methods are available for execution when an event is triggered

---

the system looks for registered handler methods In the registry table and processes those that are registered for the event

The methods defined in the Class Definition listen for raised events and respond when an event is triggered



It is determined by the RAISE Event command the system looks for registered handler methods In the event handler internal table and processes those that are registered for the event

398 Choose the correct redefinition of the superclass method in class lcl\_super\_course

---

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
 PUBLIC SECTION.
 METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
*Sub Class Method ReDefinition
A
CLASS lcl_sub_course DEFINITION INHERITING
 FROM lcl_super_course.
 PRIVATE SECTION.
 METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
B
CLASS lcl_sub_course DEFINITION INHERITING
 FROM lcl_super_course.
 PUBLIC SECTION.
 METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
C
CLASS lcl_sub_course DEFINITION INHERITING
 FROM lcl_super_course.
 PRIVATE SECTION.
 METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

```
D
CLASS lcl_sub_course DEFINITION INHERITING
```

## TAW10\_2-2

```
FROM lcl_super_course.
PUBLIC SECTION.
METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

- ✓ SubClass Definition B
- SubClass Definition D
- SubClass Definition A
- SubClass Definition C

399 What are the rules for Event parameters

---

**(More than one answer is correct)**

- ✓ EXPORTING Parameters for events can only be passed by value
- EXPORTING Parameters for events can only be passed by reference
- ✓ Events can only have EXPORTING parameters
- Events also allow RETURNING parameters

400 What is the number of superclasses that can exist for a given subclass

---

- only many
- none
- ✓ only 1
- 1 or many

## TAW10\_2-2

401 Refer to the following code and indicate which statements are true

---

```
Data: cl_container type ref to cl_gui_custom_container,
 cl_grid type ref to cl_gui_alv_grid.
```

**(More than one answer is correct)**

- ✓  cl\_container points to the object that communicates with the ALV grid control
- ✓  cl\_grid points to the object that communicates with the ALV grid control
- ✓  cl\_grid points to the object that communicates with the container control
- ✓  cl\_container points to the object that communicates with the container control

402 What is true about classes and objects in Object Oriented ABAP

---

**(More than one answer is correct)**

- ✓  Objects are an instance of a class
- ✓  Objects can change their class
- ✓  Classes are an instance of an object
- ✓  Class is a template for an object

403 Constructors have special considerations. Identify the incorrect statement below.

---

- ✓  A class can have multiple constructors
- ✓  The Constructor must defined in the Public section
- ✓  Generally, constructor methods can not be called
- ✓  Only Import and Exception Parameters are allowed

404 Identify the characteristics of the self reference ME

---

- ✓  None of the answers are correct
- ✓  All answers are correct

## TAW10\_2-2

The reference ME can be used to determine the dynamic type of the reference variable in the debugger

The self-reference ME can be used to access individual components

Self references allow an object to give other objects a reference to it.

405 What name is always given to a static constructor ?

---

- ✓  static\_constructor
- class\_constructor
- constructor
- class=>constructor

406 The concept of restricting direct access to data via hidden internal processes is best represented by which term

---

- ✓  Inheritance
- Encapsulation
- Polymorphism
- Instantiation

407 Refer to the following code and Select the VALID method call

---

```
Class lcl_course definition.
 Public section.
 data: course_name(12) type c.
 methods: display_price
 importing im_course_name type string.

 Private section.

 Data: price type P value 100.
 constants: c_objects101(10) type c value 'OBJECTS101'.

endclass.

class lcl_course implementation.

 method display_price.
 course_name = im_course_name.
```

## TAW10\_2-2

```
If course_name = c_objects101.
 Write: price.
Endif.
endmethod.
```

```
endclass.
```

```
Data obj_course type ref to lcl_course.
```

```
start-of-selection.
```

```
 create object obj_course.
```

Call method obj\_course->display\_price exporting  
course\_name = 'OBJECTS101'.

✓ Call method obj\_course->display\_price exporting  
im\_course\_name = 'OBJECTS101'.

Call method obj\_course->display\_price exporting  
im\_course\_name = c\_objects101.

Call method obj\_course->display\_price importing  
im\_course\_name = 'OBJECTS101'.

408 The syntax for static method specification

---

✓ Call method class name->method  
Call method class name =>method  
Call Method-> class name  
Call class-method

409 What can be said about the visibility of attributes in the following code

---

```
CLASS lcl_course DEFINITION.
PUBLIC SECTION.
 Data: name type string.

PRIVATE SECTION.
 Data: price type course-price.

ENDCLASS.
```

**(More than one answer is correct)**

✓ price is available to methods inside the class  
name is protected from outside access





price is protected from outside access  
name is available to methods only inside the class

410 Using example code below, choose the correct syntax for the redefined method

---

```
Class lcl_car definition.
Public Section.
 method calc_speed importing im_distance type ty_dist.
End Class.
```

Method calc\_speed importing im\_distance.  
Method calc\_speed importing im\_distance  
Redefinition



Method calc\_speed Redefinition.  
Method calc\_speed Redefinition importing  
im\_distance type ty\_dist.

## TAW10\_2-2

411 In the context of relationship between Super and Sub classes, identify the statements which apply

---

**(More than one answer is correct)**

- A superclass is a specialization of a subclass
- Subclass does not know its superclass
- A change in a superclass does not automatically get realized in the subclass
- A subclass is a specialization of a superclass
- Superclass does not know its subclasses

412 What can be said about the lifetime of an object

---

- An object exists for as long as it is being used in the program
- An object exists as long as at least one method of the object is registered as an event handler.
- An object exists as long as at least one reference points to it
- All answers are correct

413 Local Class lcl\_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR

---

- R3TR lcl\_class
- R3TR ZCL CLASS
- R3TR LOCAL CLASS
- R3TR CLASS
- None of the answers are correct

414 Identify the valid rule when calling public methods from within the class

---

When calling an instance method, the => operator is still required

When calling a static method, the class name is required

✓ When calling a static method, the class name can be omitted

Private methods can not call public methods

415 What can be said about the visibility of attributes in the following code

---

```
CLASS lcl_course DEFINITION.
PUBLIC SECTION.
 Data: name type string.

PRIVATE SECTION.
 Data: price type course-price.

ENDCLASS.
```

**(More than one answer is correct)**

✓ name is protected from outside access  
 ✓ price is protected from outside access  
 ✓ price is available to methods inside the class  
 name is available to methods only inside the class

416 What mechanism is used to define common components of different classes in one place

---

✓ Raise Event  
 Interface  
 Class Definition  
 Create Object

417 Changing the view of an instance of a class with more details is referred to as

---

✓ widening cast  
 up cast  
 dynamic referencing  
 narrowing cast

418 Mark the operators used to widen cast of a class

---

**(More than one answer is correct)**

- ✓  ?TO
- =
- >
- =>
- ✓  ?=
- =?

419 What is true about classes and objects in Object Oriented ABAP

---

**(More than one answer is correct)**

- Classes are an instance of an object
- Objects can change their class
- ✓  Objects are an instance of a class
- ✓  Class is a template for an object

420 Refer to the following code and indicate which statements are true

---

```
Data: cl_container type ref to cl_gui_custom_container,
 cl_grid type ref to cl_gui_alv_grid.
```

**(More than one answer is correct)**

- cl\_container points to the object that communicates with the ALV grid control
- cl\_grid points to the object that communicates with the container control
- ✓  cl\_container points to the object that communicates with the container control
- ✓  cl\_grid points to the object that communicates with the ALV grid control

## TAW10\_2-2

- 421 A MOVE\_CAST\_ERROR runtime error just occurred. Identify the cause.
- 
- ✓ Casting a super class to a subclass when superclass does not point to an instance of the subclass type  
Subclass reference variable corresponds to the superclass reference variable  
Super class method is called from the subclass  
Super class and subclass both point to an instance of the same class type
- 422 The syntax for static method specification
- 
- ✓ Call method class name->method  
Call class-method  
Call method class name =>method  
Call Method-> class name
- 423 Your program has registered several handler methods. How does the program know what methods are available for execution when an event is triggered
- 
- ✓ the system looks for registered handler methods In the event handler internal table and processes those that are registered for the event  
The methods defined in the Class Definition listen for raised events and respond when an event is triggered  
the system looks for registered handler methods In the registry table and processes those that are registered for the event  
It is determined by the RAISE Event command
- 424 In the following method, what other parameters are allowed
- 
- ```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
```

TAW10_2-2

```
METHODS: get_course_name
           IMPORTING im_name type string
           Returning value(student_count) type I.
ENDCLASS.
```

- ✓ Changing
- Exporting
- Exceptions
- Receiving

425 Identify the ABAP OO Event signature protocols

(More than one answer is correct)

- ✓ Exporting parameters can only be passed by value
- Events can only have importing Parameters
- ✓ Events can only have exporting Parameters
- Exporting parameters can only be passed by reference

426 What triggers an event

- ✓ Raise Event Inside the Method
- Call Method
- All answers are correct
- Raise Event
- None of the answers are correct

427 What implications exist when private components of a class are changed

- ✓ None of the answers are correct
- Any programs accessing the class must also change
- Programs are insulated from change
- Users of the private components must change their interface

428 Refer to the following code and Select the VALID method call

TAW10_2-2

Class lcl_course definition.

Public section.

```
data:    course_name(12)  type c.  
methods: display_price  
         importing im_course_name type string.
```

Private section.

```
Data:    price                type P value 100.  
constants: c_objects101(10) type c value 'OBJECTS101'.
```

endclass.

class lcl_course implementation.

```
method display_price.  
  course_name = im_course_name.  
  If course_name = c_objects101.  
    Write: price.  
  Endif.  
endmethod.
```

endclass.

Data obj_course type ref to lcl_course.

start-of-selection.

```
create object obj_course.
```

Call method obj_course->display_price exporting
course_name = 'OBJECTS101'.

Call method obj_course->display_price importing
im_course_name = 'OBJECTS101'.

✓ Call method obj_course->display_price exporting
im_course_name = 'OBJECTS101'.

Call method obj_course->display_price exporting
im_course_name = c_objects101.

429

What component provides the Point of Contact for outside users

✓ Public Attributes
Private Attributes
Instantiated Object
Method Signature

430 Class A provides friendship to Class B. Class B provides friendship to Class C. Identify the valid friend relationship.

(More than one answer is correct)

- ✓ A is friend of B and C
- ✓ B is friend of A
- ✓ C is friend of B
- B and C are friends of A
- C is friend of A

431 What is the number of superclasses that can exist for a given subclass

- ✓ only 1
- 1 or many
- none
- only many

432 Refer to the following code and identify the statements that are TRUE

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
    CLASS-METHODS: list_prices_and_discounts.
ENDCLASS.
```

```
CLASS lcl_course IMPLEMENTATION.
  METHOD get_course_name.
  ENDMETHOD.
```

```
  METHOD list_prices_and_discounts.
  ENDMETHOD.
```

```
ENDCLASS.
```

```
Data: course1 type ref to lcl_course,
      course2 type ref to lcl_course.
```

```
Start-of-selection.
```

```
Create object course1.
Course2 = course1.
```

(More than one answer is correct)

- ✓ Only one instance of method get_course_name exists
- Method list_prices_and_discounts can only be called once
- Memory is reserved for 2 instances of lcl_course
- list_prices_and_discounts is a instance method
- method list_prices_and_discounts is a static method

- ✓ Only one instance of method
list_prices_and_discounts exists
- 433 Where would the components of a class be defined
-
- ✓ Logic component of a program
Definition part of Class
Data Component of a program
Implementation part of a class
- 434 The concept of restricting direct access to data via hidden internal processes is best represented by which term
-
- ✓ Instantiation
Encapsulation
Inheritance
Polymorphism
- 435 The syntax for instance method specification is
-
- (More than one answer is correct)**
- ✓ Call method Objref=>method
Call method Objref->method
Call Method->Objref
✓ Call method (from within another instance method)
- 436 Finish the sentence. Propogating exceptions requires _____.
-
- ✓ a handler for the exception
the Raising cx_class parameter as part of the method signature where the exception is raised
a Cleanup Statement
the Raising cx_class parameter as part of the method signature of the calling method

437 A public attribute 'color' is added to a superclass. A subclass already has the same attribute 'color'. What is the outcome ?

(More than one answer is correct)

- ✓ A syntax message will occur
- ✓ The subclass is invalidated
- The superclass is invalidated
- A runtime error will occur

438 Local Class lcl_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR

- ✓ None of the answers are correct
- R3TR ZCL CLASS
- R3TR LOCAL CLASS
- R3TR lcl_class
- R3TR CLASS

439 In the context of polymorphism and interfaces, mark the item that is NOT true

- ✓ a class can implement any number of interfaces
- interfaces contain their own implementation part
- interfaces describe the point of contact of a class
- the user is protected from the actual implementations

440 Define Polymorphism

(More than one answer is correct)

- ✓ it s one of the main strengths of inheritance
- ✓ it s a characteristic when objects from different classes react differently to the same method call
- it s a characteristic when methods of the same class react differently to the same method call

TAW10_2-2



the same method is implemented in different ways
by redefining the method in subclasses
it is a characteristic when methods from different
classes react differently to the same interface

441 UML provides various diagram types. Mark the valid UML diagrams

(More than one answer is correct)

- ✓ Aggregation
- ✓ Component
- ✓ Behavior
- ✓ Composition
- ✓ Class

442 How can a program access private attributes of an object

- From outside the class
- By methods of a different object within the same Program
- By methods of a different instance of the same object
- ✓ Only by methods of the specific object itself

443 Local Class lcl_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR

- R3TR LOCAL CLASS
- R3TR lcl_class
- R3TR ZCL CLASS
- R3TR CLASS
- ✓ None of the answers are correct

444 Identify the Characteristics of a Final Class

- methods cannot be explicitly designated as FINAL
- No answers are correct
- contains final methods implicitly
- ✓ all answers are correct

cannot have subclasses

445 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?

- Call Method mymethod.
- You can't . Only the redefined method can be called
- ✓ Call Method Super-> mymethod.
- Call Method Superclass-> mymethod.

446 Pick the syntax for a functional method with only 1 parameter

(More than one answer is correct)

- refvar->method receiving()
- refvar->method returning()
- ✓ refvar->method(p1)
- ✓ refvar->method(im = p1)

447 Define Polymorphism

(More than one answer is correct)

- ✓ the same method is implemented in different ways by redefining the method in subclasses
- it s a characteristic when methods from different classes react differently to the same interface
- it s a characteristic when methods of the same class react differently to the same method call
- ✓ it s a characteristic when objects from different classes react differently to the same method call
- ✓ it s one of the main strengths of inheritance

448 What implications exist when private components of a class are changed

None of the answers are correct

Users of the private components must change their interface

✓

Programs are insulated from change

Any programs accessing the class must also change

449 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.

✓

Constructor methods can't be redefined

Attributes and class methods can be redefined.

The signature of the method must remain the same

Only instance methods can be redefined

450 Refer to the following code and identify the statements that are TRUE

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
    CLASS-METHODS: list_prices_and_discounts.
ENDCLASS.
```

```
CLASS lcl_course IMPLEMENTATION.
  METHOD get_course_name.
  ENDMETHOD.

  METHOD list_prices_and_discounts.
  ENDMETHOD.
ENDCLASS.
```

```
Data: course1 type ref to lcl_course,
      course2 type ref to lcl_course.
```

```
Start-of-selection.
```

```
Create object course1.
Course2 = course1.
```

(More than one answer is correct)

Method list_prices_and_discounts can only be called once

Memory is reserved for 2 instances of lcl_course

Only one instance of method get_course_name exists

TAW10_2-2



Only one instance of method

`list_prices_and_discounts` exists

`list_prices_and_discounts` is a instance method



method `list_prices_and_discounts` is a static
method

TAW10_2-2

451 What component provides the Point of Contact for outside users

- ✓
- Method Signature
 - Public Attributes
 - Instantiated Object
 - Private Attributes

452 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.

- ✓
- Constructor methods can't be redefined
 - The signature of the method must remain the same
 - Only instance methods can be redefined
 - Attributes and class methods can be redefined.

453 Finish the sentence. Propogating exceptions requires

- ✓
- the Raising cx_class parameter as part of the method signature of the calling method
 - the Raising cx_class parameter as part of the method signature where the exception is raised
 - a handler for the exception
 - a Cleanup Statement

454 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

- ✓
- Local Classes are available only to programs in the same development class
 - Global Classes are available only from programs belonging to the same development class
 - Global classes are centrally available to all ABAP programs

✓ Local Classes are available only to the program where the class is defined

455 The concept of restricting direct access to data via hidden internal processes is best represented by which term

✓ Instantiation
Inheritance
Encapsulation
Polymorphism

456 Mark the invalid attribute definitions

```
class lcl_course definition.
10 public section.
20   Data: school(20)   type c,
30         Supervisor type string value ADAMS ,
40         Price(3)   type p decimals 2 value 100 READ-ONLY.
50   types: type_category(15) type c,
60         type_name(10)      type c.

70   constants: write_position type i value 10.
80   class-data: course_count type i.
90 private section.
100  data: category(15) type c,
110        name(10)      type c.
120        courseid      like mara-matnr.

endclass.
```

✓ 40,70
30,80
70,80
30,120
40, 120

457 Using the UML modeling language for ABAP OO design, refer to the following and indicate the visibility of the components

```
-----
| cl_myclass      |
-----
| +city           |
```

```

| #address          |
|-----|
| + get_city()     |
| - display_addr() |
|                  |
|-----|

```

(More than one answer is correct)

- ✓ city is a public attribute
- display_address is a static public method
- ✓ display_address is a private method
- display_address is a public method
- get_city is a public attribute
- ✓ address is protected attribute

458 Refer to the following code and identify the statements that are TRUE

```

CLASS lcl_course DEFINITION.
    PUBLIC SECTION.
        METHODS: get_course_name IMPORTING im_name type string.
        CLASS-METHODS: list_prices_and_discounts.
ENDCLASS.

CLASS lcl_course IMPLEMENTATION.
    METHOD get_course_name.
    ENDMETHOD.

    METHOD list_prices_and_discounts.
    ENDMETHOD.
ENDCLASS.

Data: course1 type ref to lcl_course,
      course2 type ref to lcl_course.

Start-of-selection.

Create object course1.
Course2 = course1.

```

(More than one answer is correct)

- ✓ method list_prices_and_discounts is a static method
- Memory is reserved for 2 instances of lcl_course
- Method list_prices_and_discounts can only be called once



Only one instance of method
list_prices_and_discounts exists
list_prices_and_discounts is a instance method
Only one instance of method get_course_name
exists

459 Identify the statement about Global Classes that is NOT true



Access to a global class is done as a reference
variable using TYPE REF TO
Class Builder can be used to test global classes
Programs that are available to Global Classes must
be associated in Class Builder
Global classes are stored in TADIR with key R3TR
CLAS
A method to be transported is identified in transport
organiser as LIMU METH

460 Identify the ABAP OO Event signature protocols

(More than one answer is correct)



Events can only have importing Parameters
Exporting parameters can only be passed by value
Events can only have exporting Parameters
Exporting parameters can only be passed by
reference

TAW10_2-2

- 461 Identify the valid statements that will write out the Static Attributes in the following code

```
class lcl_course definition.

    public section.
        data: name(15) type c value 'ABAPObjects101'.
              class-data price      type p value 100.

    private section.
        data: category(10) type C value 'Objects'.

endclass.

data: course1      type ref to lcl_course,
      course_name  type string,
      course_price type p,
      course_category type string.
```

(More than one answer is correct)

- ✓ write: price.
- ✓ course_price = lcl_course=>price. Write course_price.
- ✓ write lcl_course=>price.
- write lcl_course->price.

- 462 Define Polymorphism

(More than one answer is correct)

- ✓ the same method is implemented in different ways by redefining the method in subclasses
- ✓ it s one of the main strengths of inheritance
- ✓ it s a characteristic when methods from different classes react differently to the same interface
- ✓ it s a characteristic when objects from different classes react differently to the same method call
- it s a characteristic when methods of the same class react differently to the same method call

- 463 What mechanism is used to define common components of different

classes in one place

- ✓ Raise Event
- Class Definition
- ✓ Create Object
- Interface

464 UML provides various diagram types. Mark the valid UML diagrams

(More than one answer is correct)

- ✓ Aggregation
- ✓ Behavior
- ✓ Class
- Composition
- ✓ Component

465 Refer to the following code and indicate which statements are true

```
Data: cl_container type ref to cl_gui_custom_container,
      cl_grid      type ref to cl_gui_alv_grid.
```

(More than one answer is correct)

- ✓ cl_grid points to the object that communicates with the ALV grid control
- ✓ cl_container points to the object that communicates with the container control
- cl_grid points to the object that communicates with the container control
- cl_container points to the object that communicates with the ALV grid control

466 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.

- ✓ The signature of the method must remain the same
- Only instance methods can be redefined
- Attributes and class methods can be redefined.
- Constructor methods can't be redefined

467 Where are the methods of a class implemented

- ✓ Call method of the class
- Implementation part of a class
- Definition part of Class
- Object instantiation part of a program

468 What component of a class guarantees its own consistency

- ✓ public attributes
- static methods
- functional methods
- private attributes

469 What component provides the Point of Contact for outside users

- ✓ Instantiated Object
- Public Attributes
- Private Attributes
- Method Signature

470 What is the only component that is implemented in the implementation part of a class

- ✓ Object
- Interface
- Method
- Event
- Attribute

TAW10_2-2

471 Identify the line that contains the valid use of the READ-ONLY additon

```
class lcl_course definition.

10 public section.
20   Data: Price(3) type p decimals 2
           value 100 READ-ONLY.
30   Types: type_category(15) type C READ-ONLY.
40   Constants: write_position type I value 10 READ-ONLY.

50 private section.
60   data: category(15) type C READ-ONLY,
70   class-data: course_count type I READ-ONLY.

endclass.
```

- ✓
- 30
 - 40
 - 60
 - 50
 - 20

472 Local Class lcl_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR

- ✓
- None of the answers are correct
 - R3TR ZCL CLASS
 - R3TR lcl_class
 - R3TR LOCAL CLASS
 - R3TR CLASS

473 What syntax provides access to individual components of a class within the class

(More than one answer is correct)

- ✓
- CALL METHOD object instance->ME->
 - ME->



CALL METHOD ME->
object instance->ME->

- 474 Your program has registered several handler methods. How does the program know what methods are available for execution when an event is triggered
-



the system looks for registered handler methods In the registry table and processes those that are registered for the event

It is determined by the RAISE Event command the system looks for registered handler methods In the event handler internal table and processes those that are registered for the event

The methods defined in the Class Definition listen for raised events and respond when an event is triggered

- 475 Refer to the following code and identify the statements that are TRUE
-

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
    CLASS-METHODS: list_prices_and_discounts.
ENDCLASS.
```

```
CLASS lcl_course IMPLEMENTATION.
  METHOD get_course_name.
  ENDMETHOD.

  METHOD list_prices_and_discounts.
  ENDMETHOD.
ENDCLASS.
```

```
Data: course1 type ref to lcl_course,
      course2 type ref to lcl_course.
```

```
Start-of-selection.
```

```
Create object course1.
Course2 = course1.
```

(More than one answer is correct)

TAW10_2-2

- ✓ method list_prices_and_discounts is a static method
Method list_prices_and_discounts can only be called once
Memory is reserved for 2 instances of lcl_course
Only one instance of method get_course_name exists
- ✓ Only one instance of method list_prices_and_discounts exists
list_prices_and_discounts is a instance method

476 Mark the invalid attribute definitions

```
class lcl_course definition.  
  
10 public section.  
20   Data: school(20)   type c,  
30         Supervisor type string value ADAMS ,  
40         Price(3)   type p decimals 2 value 100 READ-ONLY.  
50   types: type_category(15) type c,  
60         type_name(10)      type c.  
  
70   constants: write_position type i value 10.  
80   class-data: course_count type i.  
90 private section.  
100  data: category(15) type c,  
110        name(10)      type c.  
120        courseid      like mara-matnr.  
  
endclass.
```

- 40,70
- 30,80
- 70,80
- ✓ 30,120
- 40, 120

477 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

- ✓ Global Classes are available only from programs belonging to the same development class
Local Classes are available only to the program where the class is defined

- ✓ Global classes are centrally available to all ABAP programs
Local Classes are available only to programs in the same development class

478 Identify the requirements that determine when an object gets deleted by garbage collection

(More than one answer is correct)

- ✓ When all active objects are marked
- ✓ When there are no more references pointing to an object
- ✓ When objects can no longer be addressed from main memory
- ✓ When none of its methods are registered as event handlers

479 Method

- ✓ lcl_basepart~display
lif_material~display
lcl_basepart~display
lcl_basepart->display
lcl_basepart=>display
display

480 Mark the items that characterize some primary differences between objects and functions

(More than one answer is correct)

- Functions allow multiple instances of the same data objects. Objects only allow single instances of data
- A program can directly access data in the function group while access to data in an object is not possible
- ✓ A program can only work with a single instance of the same function group versus a program can access several instances of the same object
- ✓

TAW10_2-2

Calling a function loads the entire function group implicitly into memory whereas instances of an object are generated explicitly when an object is created

TAW10_2-2

- 481 Class A provides friendship to Class B. Class B provides friendship to Class C. Identify the valid friend relationship.
-

(More than one answer is correct)

- A is friend of B and C
- B and C are friends of A
- C is friend of A
- B is friend of A
- C is friend of B

- 482 What are the rules for Event parameters
-

(More than one answer is correct)

- Events can only have EXPORTING parameters
- EXPORTING Parameters for events can only be passed by value
- EXPORTING Parameters for events can only be passed by reference
- Events also allow RETURNING parameters

- 483 Using the UML modeling language for ABAP OO design, refer to the following and indicate the visibility of the components
-

```

-----
| cl_myclass          |
-----
| +city              |
| #address           |
|-----|
| + get_city()      |
| - display_addr() |
|                   |
|-----|

```

(More than one answer is correct)

display_address is a static public method

- ✓ get_city is a public attribute
- display_address is a public method
- ✓ display_address is a private method
- ✓ city is a public attribute
- address is protected attribute

484 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

- ✓ Events subscribe to classes
- ✓ Classes trigger events
- ✓ Classes subscribe to events
- Methods subscribe to classes
- Start-of-selection is an OO event

485 Where would the components of a class be defined

- Logic component of a program
- Implementation part of a class
- Data Component of a program
- ✓ Definition part of Class

486 What syntax provides access to individual components of a class within the class

(More than one answer is correct)

- ✓ ME->
- object instance->ME->
- ✓ CALL METHOD ME->
- CALL METHOD object instance->ME->

487 Where are the methods of a class implemented

- ✓ Implementation part of a class
- Object instantiation part of a program
- Call method of the class

Definition part of Class

488 Initializing an object in a subclass requires that the constructor of the superclass is first called. Identify the correct syntax.

- ✓ Call Method Super-> Constructor
- Call Method Constructor-> Super
- Call Method Constructor
- Call Method Super Constructor

489 Finish the sentence. Propagating exceptions requires

- ✓ the Raising cx_class parameter as part of the method signature where the exception is raised
- a handler for the exception
- the Raising cx_class parameter as part of the method signature of the calling method
- a Cleanup Statement

490 How can a program access private attributes of an object

- From outside the class
- By methods of a different instance of the same object
- ✓ Only by methods of the specific object itself
- By methods of a different object within the same Program

TAW10_2-2

491 Constructors have special considerations. Identify the incorrect statement below.

- ✓ A class can have multiple constructors
 Generally, constructor methods can not be called
 The Constructor must defined in the Public section
 Only Import and Exception Parameters are allowed

492 Local Class lcl_course has been defined in a program belonging to development class ZCL. What is the key entry in the repository table TADIR

- ✓ R3TR lcl_class
 R3TR LOCAL CLASS
 None of the answers are correct
 R3TR CLASS
 R3TR ZCL CLASS

493 Choose the item that is not characteristic of redefinition in the context of super/sub class inheritance.

- ✓ Attributes and class methods can be redefined.
 Only instance methods can be redefined
 The signature of the method must remain the same
 Constructor methods can't be redefined

494 Choose the correct redefinition of the superclass method in class lcl_super_course

```
*Super Class Definition
CLASS lcl_super_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
*Sub Class Method ReDefinition
```


TAW10_2-2

```
A
CLASS lcl_sub_course DEFINITION INHERITING
    FROM lcl_super_course.
    PRIVATE SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
B
CLASS lcl_sub_course DEFINITION INHERITING
    FROM lcl_super_course.
    PUBLIC SECTION.
    METHODS: get_course_name IMPORTING im_name type string.
ENDCLASS.
```

```
C
CLASS lcl_sub_course DEFINITION INHERITING
    FROM lcl_super_course.
    PRIVATE SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

```
D
CLASS lcl_sub_course DEFINITION INHERITING
    FROM lcl_super_course.
    PUBLIC SECTION.
    METHODS: get_course_name REDEFINITION.
ENDCLASS.
```

- ✓ SubClass Definition B
- SubClass Definition C
- SubClass Definition D
- SubClass Definition A

495 Pick the syntax for a functional method with only 1 parameter

(More than one answer is correct)

- ✓ refvar->method receiving()
- ✓ refvar->method(im = p1)
- ✓ refvar->method returning()
- ✓ refvar->method(p1)

496 Initializing an object in a subclass requires that the constructor of the superclass is first called. Identify the correct syntax.

-
- ✓
Call Method Constructor-> Super
Call Method Constructor
Call Method Super-> Constructor
Call Method Super Constructor
- 497 Changing the view of an instance of a class with more details is referred to as
-
- ✓
narrowing cast
up cast
dynamic referencing
widening cast
- 498 What is the number of superclasses that can exist for a given subclass
-
- ✓
only 1
none
only many
1 or many
- 499 Identify the requirements that determine when an object gets deleted by garbage collection
-
- (More than one answer is correct)**
- ✓ When objects can no longer be addressed from main memory
- ✓ When none of its methods are registered as event handlers
- ✓ When there are no more references pointing to an object
- When all active objects are marked
- 500 Identify the line that contains the valid use of the READ-ONLY additon
-
- ```
class lcl_course definition.
```

## TAW10\_2-2

```
10 public section.
20 Data: Price(3) type p decimals 2
 value 100 READ-ONLY.
30 Types: type_category(15) type C READ-ONLY.
40 Constants: write_position type I value 10 READ-ONLY.

50 private section.
60 data: category(15) type C READ-ONLY,
70 class-data: course_count type I READ-ONLY.

endclass.
```

✓

30  
50  
20  
40  
60