

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 superclass 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 is one of the main strengths of inheritance
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

- 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,
```

TAW10_2-2

```
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

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 referencng
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

TAW10_2-2

list_prices_and_discounts exists
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 compnent 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.
```

TAW10_2-2

```
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.

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

- 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

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)

- 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

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

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

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

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

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

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

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
=
->
? =

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

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.

```

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```
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 = '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

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

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

- 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)

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 their components to reflect the changes
 Nothing. The class maintains its 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()
```


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 objects 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

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

- 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 its 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'.

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.
```

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

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 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
it s one of the main strengths of inheritance
it s 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

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 inheritance 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

- 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

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
 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

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

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.
```

- 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

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 is one of the main strengths of inheritance
 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

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 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

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

None of the answers are correct

TAW10_2-2

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

TAW10_2-2

exists

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

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

- 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

- 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.

```

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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)

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

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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

- 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

- 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
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

superclas 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

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```
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
20
40
60