

TAW12_1-3

1 What happens when the Set Handler command is executed

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

2 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

3 Mark the operators used to widen cast of a class

(More than one answer is correct)

?TO
 ?=
 =>
 ->
 =
 =?

4 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

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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

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

(More than one answer is correct)

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

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

Create Object
Call Method
Create Constructor
Call Constructor

7 The syntax for instance method specification is

(More than one answer is correct)

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

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

Importing
Returning
Exception
Result

9 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)`.

10 What name is always given to a static constructor ?

`class_constructor`
`static_constructor`
`class=>constructor`
`constructor`

11 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

12 What component provides the Point of Contact for outside users

Private Attributes
 Public Attributes
 Instantiated Object
 Method Signature

13 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.

14 Mark the items that characterize the Methods of a Class

(More than one answer is correct)

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

15 Where is the visibility of class components defined

Class Definition
Class Implementation
Class Methods
Object Instance

16 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 ALV grid control
cl_grid points to the object that communicates with
the container control

17 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

18 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

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

Method
Event
Interface
Attribute
Object

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

Result
Importing
Exception
Returning

21 An inherited class :

(More than one answer is correct)

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

22 Finish the sentence. Propogating exceptions requires

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

23 Where is the visibility of class components defined

Class Methods
 Class Implementation
 Class Definition
 Object Instance

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

definition
 implementation
 attributes
 method

25 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

26 Mark the operators used to widen cast of a class

(More than one answer is correct)

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

27 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.
- You can't . Only the redefined method can be called
- Call Method Superclass-> mymethod.
- Call Method mymethod.

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

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

29 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

30 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.
```

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```
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
- 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

- 31 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
40
60
20

- 32 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

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

33 Which statement will create an instance of a class

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

34 In ABAP objects, which component is said to determine an objects behavior

signature
method
implementation
class

35 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
receive their own copy of the static attribute for each subclass
does not allow for methods to be redefined in subclasses

36 Identify the statement about Global Classes that is NOT true

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
Access to a global class is done as a reference
variable using TYPE REF TO

37 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

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
Global Classes are available only from programs
belonging to the same development class

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

(More than one answer is correct)

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

39 In object orientation, the term USER includes

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

40 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

41 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

42 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

43 The syntax for static method specification

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

44 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

A runtime error will occur
The subclass is invalidated
The superclass is invalidated

- 45 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 CLASS
R3TR ZCL CLASS
R3TR lcl_class

- 46 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 value
EXPORTING Parameters for events can only be passed by reference

- 47 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

- 48 Where are the methods of a class implemented
-

Implementation part of a class
Call method of the class
Definition part of Class

Object instantiation part of a program

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

(More than one answer is correct)

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

50 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
 Only one instance of method get_course_name

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exists

list_prices_and_discounts is a instance method

51 Which statement will create an instance of a class

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

52 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

53 Identify the ABAP OO Event signature protocols

(More than one answer is correct)

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

54 Mark the items that characterize the Methods of a Class

(More than one answer is correct)

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

- 55 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
 C is friend of A
 C is friend of B
 B is friend of A
 A is friend of B and C

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

```
CLASS lcl_course DEFINITION.
  PUBLIC SECTION.
    METHODS: get_course_name IMPORTING in_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
 list_prices_and_discounts exists
 list_prices_and_discounts is a instance method
 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

57 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 the program
 where the class is defined
 Local Classes are available only to programs in
 the same development class

58 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 D

SubClass Definition A

SubClass Definition C

59 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

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

60 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 ).
```

61 In object orientation, the term `USER` includes

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

62 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

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

64 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

Cannot be instantiated
 Methods can not be implemented in the subclass

Methods can only be implemented in the subclass
 Can only be implemented through an Interface

65 Where are the methods of a class implemented

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

66 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
 name is available to methods only inside the class
 name is protected from outside access

price is available to methods inside the class

67 Where is the visibility of class components defined

Object Instance
 Class Methods
 Class Implementation
 Class Definition

68 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 CLASS
 R3TR ZCL CLASS
 R3TR LOCAL CLASS
 R3TR lcl_class

69 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, 120
 30,80
 70,80

40,70
30,120

70 What is possible with a subclass in an inheritance relationship to the superclass

(More than one answer is correct)

Components defined in the superclass are not present in the subclass unless they are explicitly defined in the definition of the subclass
The subclass can remove components of the superclass
can provide inherited methods with new implementations (redefinition)
can add new components to the subclass
inherits all the characteristics of the superclass

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

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

- 72 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
 price is protected from outside access
 name is available to methods only inside the class
 name is protected from outside access

- 73 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
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'.
Call method obj_course->display_price exporting
course_name = 'OBJECTS101'.

```

- 74 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.

```

- 75 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
B is friend of A
B and C are friends of A

```

A is friend of B and C
C is friend of A

76 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
the Raising `cx_class` parameter as part of the method signature of the calling method
a Cleanup Statement

77 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

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

Call Constructor
Create Constructor
Call Method
Create Object

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

A class can have multiple constructors
Only Import and Exception Parameters are allowed

Generally, constructor methods can not be called
The Constructor must defined in the Public section

80 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
does not allow for methods to be redefined in
subclasses
receive their own copy of the static attribute for each
subclass
cannot be shared

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

implementation
 definition
 method
 attributes

82 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
 C is friend of A
 C is friend of B
 A is friend of B and C
 B is friend of A

83 What triggers an event

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

84 Identify the statement about Global Classes that is NOT true

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
 A method to be transported is identified in transport
 organiser as LIMU METH

Programs that are available to Global Classes must be associated in Class Builder

85 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_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

86 What name is always given to a static constructor ?

static_constructor
class=>constructor
class_constructor
constructor

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

Create Object
Call Method
Create Constructor
Call Constructor

88 The syntax for instance method specification is

(More than one answer is correct)

Call method Objref->method
Call Method->Objref
Call method Objref=>method

Call method (from within another instance method)

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

(More than one answer is correct)

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

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

(More than one answer is correct)

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

91 Which statement will create an instance of a class

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

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

(More than one answer is correct)

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

93 An inherited class :

(More than one answer is correct)

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

94 What name is always given to a static constructor ?

class_constructor

constructor
 class=>constructor
 static_constructor

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

Instantiation
 Encapsulation
 Polymorphism
 Inheritance

- 96 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 D
SubClass Definition A
SubClass Definition B

- 97 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
name can not be accessed unless course1 is
instantiated
course_price = lcl_course=>price.
course_name = course1=>name.
course_name = course1->name.

```

- 98 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->

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

(More than one answer is correct)

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

100 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 of the same class react differently to the same method call
it s a characteristic when objects from different classes react differently to the same method call
it s a characteristic when methods from different classes react differently to the same interface

101 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 can be omitted

When calling a static method, the class name is required

102 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

it is one of the main strengths of inheritance

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

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

103 What are the rules for Event parameters

(More than one answer is correct)

EXPORTING Parameters for events can only be passed by reference

Events also allow RETURNING parameters

Events can only have EXPORTING parameters

EXPORTING Parameters for events can only be passed by value

104 Identify the characteristics of the self reference ME

All 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.
The self-reference ME can be used to access individual components
None of the answers are correct

105 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?

Call Method Superclass-> mymethod.
Call Method Super-> mymethod.
You can't . Only the redefined method can be called
Call Method mymethod.

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

narrowing cast
up cast
dynamic referencing
widening cast

107 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 programs in the same development class

Local Classes are available only to the program where the class is defined

- 108 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
 the user is protected from the actual implementations
 interfaces contain their own implementation part

- 109 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
 list_prices_and_discounts exists
 Memory is reserved for 2 instances of lcl_course
 Only one instance of method get_course_name
 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

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

Call Method
Create Constructor
Call Constructor
Create Object

- 111 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

- 112 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 correponds to the superclass reference variable
 Casting a super class to a subclass when superclass does not point to an instance of the subclass type

- 113 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

- 114 Where are the methods of a class implemented
-

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

115 An inherited class :

(More than one answer is correct)

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

116 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

- Methods can not be implemented in the subclass
- Cannot be instantiated

- Methods can only be implemented in the subclass
- Can only be implemented through an Interface

117 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_price = lcl_course=>price.
course_name = course1->name.
course_name = course1=>name.
name can not be accessed unless course1 is
instantiated
course_name = name
```

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

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

- 119 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)

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

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

TAW12_1-3

```
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
50
30
20

121 Define Polymorphism

(More than one answer is correct)

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
 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

122 An inherited class :

(More than one answer is correct)

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

123 Where are the methods of a class implemented

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

124 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

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

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

126 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.

127 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

128 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

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

(More than one answer is correct)

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

130 Where would the components of a class be defined

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

- 131 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 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
the system looks for registered handler methods in the event handler internal table and processes those that are registered for the event

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

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

- 133 Constructors have special considerations. Identify the incorrect statement below.
-

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

- 134 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

135 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)

136 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).

137 Finish the sentence. Propogating exceptions requires

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

138 In the following method, what other parameters are allowed

TAW12_1-3

```
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

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

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

- 140 A MOVE_CAST_ERROR runtime error just occurred. Identify the cause.
-

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
Super class and subclass both point to an instance
of the same class type
Subclass reference variable corresponds to the
superclass reference variable

141 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

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

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

143 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 list_prices_and_discounts exists
- Only one instance of method get_course_name exists
- Memory is reserved for 2 instances of lcl_course
- 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

144 Which statement will create an instance of a class

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

145 In object orientation, the term USER includes

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

146 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 correponds to the superclass reference variable

Super class and subclass both point to an instance
of the same class type
Super class method is called from the subclass

147 What name is always given to a static constructor ?

class_constructor
constructor
class=>constructor
static_constructor

148 What component of a class guarantees its own consistency

static methods
public attributes
private attributes
functional methods

149 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 lcl_course->price.

write: price.
write lcl_course=>price.

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

widening cast
narrowing cast
up cast
dynamic referencing

151 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

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

152 Method

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

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

(More than one answer is correct)

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

154 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

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

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

- 156 Which statement will create an instance of a class
-

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

- 157 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
 display_address is a public method
 address is protected attribute
 get_city is a public attribute

display_address is a static public method

158 What can be said about the lifetime of an object

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

159 The syntax for static method specification

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

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.
```

30
 20
 50
 60
 40

161 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

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

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

163 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
Exporting parameters can only be passed by reference
Events can only have exporting Parameters

164 The syntax for instance method specification is

(More than one answer is correct)

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

165 What happens when the Set Handler command is executed

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

166 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
Subclass does not know its superclass
A superclass is a specialization of a subclass
Superclass does not know its subclasses
A subclass is a specialization of a superclass

167 Where is the visibility of class components defined

Class Methods
Class Implementation
Object Instance
Class Definition

168 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 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

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

Exception
Importing
Returning
Result

170 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
name is available to methods only inside the class
price is protected from outside access
price is available to methods inside the class

171 The syntax for static method specification

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

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

Event
Object
Method
Interface
Attribute

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

signature
implementation
class
method

174 Where are the methods of a class implemented

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

175 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?

You can't . Only the redefined method can be called
Call Method Superclass-> mymethod.
Call Method Super-> mymethod.
Call Method mymethod.

176 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

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

177 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

Methods can only be implemented in the subclass
Methods can not be implemented in the subclass

Cannot be instantiated
Can only be implemented through an Interface

178 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

179 Finish the sentence. Propogating exceptions requires

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
a handler for the exception

180 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
Subclass does not know its superclass
A subclass is a specialization of a superclass
A change in a superclass does not automatically get realized in the subclass

181 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

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
 Global Classes are available only from programs belonging to the same development class

182 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

183 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
 name is available to methods only inside the class
 price is available to methods inside the class
 price is protected from outside access

184 Which statement will create an instance of a class

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

185 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 method is called from the subclass
 Subclass reference variable corresponds to the superclass reference variable
 Super class and subclass both point to an instance of the same class type

186 Mark the items that characterize the Methods of a Class

(More than one answer is correct)

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

187 The syntax for static method specification

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

188 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
- list_prices_and_discounts is a instance method
- Memory is reserved for 2 instances of lcl_course
- 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

189

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

190 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
The signature of the method must remain the same
Attributes and class methods can be redefined.

191 Define Polymorphism

(More than one answer is correct)

it is a characteristic when methods of the same class 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 objects from different classes 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

192 Identify the Characteristics of a Final Class

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

193 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

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

TAW12_1-3

```
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.
```

195 What happens when the Set Handler command is executed

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

196 What can be said about the lifetime of an object

All answers are correct
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.
An object exists for as long as it is being used in

the program

197 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).`

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

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
 Inheritance becomes invalidated

199 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 ZCL CLASS
 None of the answers are correct
 R3TR GLOB CLASS
 R3TR CLAS `cl_course`
 R3TR `cl_course`

200 How can a program access private attributes of an object

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

201 Where would the components of a class be defined

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

202 What name is always given to a static constructor ?

static_constructor
 class=>constructor
 class_constructor
 constructor

203 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
 50
 30
 40
 60

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

implementation
method
definition
attributes

205 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

206 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
Global classes are stored in TADIR with key R3TR CLAS
Class Builder can be used to test global classes
A method to be transported is identified in transport organiser as LIMU METH
Programs that are available to Global Classes must be associated in Class Builder

207 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.

208 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

209 The syntax for instance method specification is

(More than one answer is correct)

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

210 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 ZCL CLASS
R3TR GLOB CLASS
R3TR CLAS cl_course
R3TR cl_course

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

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

212 Where is the visibility of class components defined

Class Implementation
Class Definition
Class Methods
Object Instance

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

Instantiation
Encapsulation
Inheritance
Polymorphism

214 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
None of the answers are correct
All answers are correct
Self references allow an object to give other objects a reference to it.

215 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

216 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

217 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?

Call Method Superclass-> mymethod.
 Call Method Super-> mymethod.
 Call Method mymethod.
 You can't . Only the redefined method can be called

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

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

Programs are insulated from change

219 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

220 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 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

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

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

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

Encapsulation
Polymorphism
Instantiation
Inheritance

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

(More than one answer is correct)

Event Triggering using Raise Event can be issued in a method

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

- 224 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
50
20
30
40

- 225 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
 Only one instance of method get_course_name exists
 Memory is reserved for 2 instances of lcl_course
 method list_prices_and_discounts is a static method
 list_prices_and_discounts is a instance method
 Only one instance of method list_prices_and_discounts exists

226 What name is always given to a static constructor ?

constructor
 class_constructor
 static_constructor
 class=>constructor

227 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
 Superclass does not know its subclasses
 Subclass does not know its superclass
 A subclass is a specialization of a superclass

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

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

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

230 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 ZCL CLASS
 R3TR CLASS
 R3TR lcl_class
 R3TR LOCAL CLASS
 None of the answers are correct

- 231 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 Constructor-> Super
 Call Method Super Constructor

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

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

TAW12_1-3

```
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
- method list_prices_and_discounts is a static method
- Only one instance of method get_course_name exists
- 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

234 Identify the statements that best describe the visibility of classes

(More than one answer is correct)

- 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
- Global classes are centrally available to all ABAP programs

Local Classes are available only to programs in the same development class

235 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()

236 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 protected components are visible to all subclasses
Superclass private components are visible to all subclasses

237 Which statement will create an instance of a class

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

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

(More than one answer is correct)

TAW12_1-3

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
Events can be triggered with the Trigger Event command

239 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
interfaces contain their own implementation part
a class can implement any number of interfaces

240 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 reference
Exporting parameters can only be passed by value
Events can only have exporting Parameters

241 In object orientation, the term `USER` includes

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

242 Identify the characteristics of the self reference `ME`

- None of the answers are correct
- 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
- The reference `ME` can be used to determine the dynamic type of the reference variable in the debugger

243 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.

```

- Receiving
- Exceptions
- Exporting
- Changing

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

Interface
Object
Attribute
Event
Method

245 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 ZCL CLASS
R3TR CLASS
None of the answers are correct
R3TR lcl_class
R3TR LOCAL CLASS

246 What triggers an event

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

247 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
Event handler methods are called in the sequence that they were registered in the handler table
A single SET Handler command can be used to register multiple handler methods in the handler table

248 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
30,120
40, 120
30,80

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

(More than one answer is correct)

Component
Composition
Behavior
Class
Aggregation

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

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

TAW12_1-3

Super class method is called from the subclass
Super class and subclass both point to an instance
of the same class type

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

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

252 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 it's own status
 private components will also need to be changed

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

(More than one answer is correct)

Aggregation
 Class
 Behavior
 Composition
 Component

254 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 ZCL CLASS
 R3TR cl_course

R3TR CLAS cl_course
None of the answers are correct

255 Method

```
lcl_basepart->display
lcl_basepart=>display
lif_material~display
display
lcl_basepart~display
lcl_basepart~display
```

256 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
Only one instance of method get_course_name
exists
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

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

inheritance
casting
instantiation
polymorphism
encapsulation

- 258 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
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

- 259 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.
```

TAW12_1-3

```
100 data: category(15) type c,  
110     name(10)      type c.  
120     courseid     like mara-matnr.
```

```
endclass.
```

```
70,80  
40,70  
30,80  
30,120  
40, 120
```

260 Where would the components of a class be defined

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

- 261 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
 A runtime error will occur
 The subclass is invalidated
 The superclass is invalidated

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

263 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

264 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
 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

265 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

266 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?

Call Method mymethod.
 Call Method Superclass-> mymethod.
 Call Method Super-> mymethod.
 You can't . Only the redefined method can be called

267 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)

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

268 An inherited class :

(More than one answer is correct)

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

- 269 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_price = lcl_course->price.
course_name = course1=>name.
course_name = name
```

- 270 What is true about classes and objects in Object Oriented ABAP
-

(More than one answer is correct)

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

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

- 272 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
im_course_name = c_objects101.

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 importing
im_course_name = 'OBJECTS101'.

273 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 as long as at least one reference
points to it

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

All answers are correct

274 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()

275 Identify the statement about Global Classes that is NOT true

A method to be transported is identified in transport
organiser as LIMU METH

Access to a global class is done as a reference
variable using TYPE REF TO

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

276 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
None of the answers are correct
All answers are correct
Self references allow an object to give other objects a reference to it.

277 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

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

Encapsulation
Instantiation
Polymorphism
Inheritance

279 Identify the ABAP OO Event signature protocols

(More than one answer is correct)

Exporting parameters can only be passed by reference

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

280 Finish the sentence. Propogating exceptions requires

_____.

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

281 Method

```
lcl_basepart=>display
lif_material~display
display
lcl_basepart~display
lcl_basepart->display
lcl_basepart~display
```

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

283 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.
Call Method mymethod.
You can't . Only the redefined method can be called
```

284 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.
```

TAW12_1-3

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

285 Identify the Characteristics of a Final Class

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

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

(More than one answer is correct)

Composition
Class
Aggregation
Component
Behavior

287 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.`

288 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
A runtime error will occur
The superclass is invalidated

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

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

Create Object
Interface
Class Definition
Raise Event

291 What component provides the Point of Contact for outside users

Method Signature
Public Attributes
Private Attributes
Instantiated Object

292 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
Events can be triggered with the Trigger Event command
Event Triggering using Raise Event can be issued in a method
An event is defined in the Implementation of a Class

293 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.
```

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

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

295 The syntax for instance method specification is

(More than one answer is correct)

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

296 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 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

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

297 Identify the characteristics of the self reference ME

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

None of the answers are correct

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

All answers are correct

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

298 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 mymethod.

Call Method Superclass-> mymethod.

You can't . Only the redefined method can be called

299 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

300 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
the user is protected from the actual
implementations
interfaces contain their own implementation part

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

Method
Event
Attribute
Object
Interface

302 The syntax for static method specification

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

303 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
B and C are friends of A
C is friend of A
C is friend of B

304 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
 city is a public attribute
 display_address is a public method
 display_address is a private method
 address is protected attribute

305 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

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

(More than one answer is correct)

Aggregation
 Composition
 Class
 Component
 Behavior

307 Where is the visibility of class components defined

Object Instance

Class Definition
Class Implementation
Class Methods

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

A single SET Handler command can be used to register multiple handler methods in the handler table
Registered Methods in the handler table can only be triggered by RAISE EVENT i.e. not by CALL METHOD
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

309 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

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

(More than one answer is correct)

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

311 What name is always given to a static constructor ?

class_constructor
 class=>constructor
 constructor
 static_constructor

312 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

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

314 In object orientation, the term USER includes

None of the answers are correct
 Methods
 All of the answers are correct

Attributes
Events

315 What component of a class guarantees its own consistency

private attributes
static methods
functional methods
public attributes

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

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

Class Definition
Interface
Create Object
Raise Event

318 What triggers an event

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

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

none
only many
only 1
1 or many

320 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 ).
```

321 Identify the ABAP OO Event signature protocols

(More than one answer is correct)

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

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

implementation
 signature
 class
 method

323 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
 Instance methods MUST be addressed by object ref after instantiation
 Static methods MUST be addressed by class_name even when object is instantiated
 Static methods MUST be addressed by object reference after instantiation

324 Mark the items that characterize the Methods of a Class

(More than one answer is correct)

Can be defined with a parameter interface

TAW12_1-3

Can access all attributes in their class
Can access only public attributes in their class
Only pass return codes to the calling program
Can change the state of an object

325 Identify the statement about Global Classes that is NOT true

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

326 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 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

327 What happens when the Set Handler command is executed

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

328 In the following method, what other parameters are allowed

TAW12_1-3

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

Exporting
Receiving
Changing
Exceptions

329 In object orientation, the term `USER` includes

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

330 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_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

331 Where is the visibility of class components defined

Object Instance
 Class Definition
 Class Methods
 Class Implementation

332 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
 Only one instance of method list_prices_and_discounts exists
 Memory is reserved for 2 instances of lcl_course
 Only one instance of method get_course_name exists
 list_prices_and_discounts is a instance method

method list_prices_and_discounts is a static method

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

- 334 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
 receive their own copy of the static attribute for each subclass
 does not allow for methods to be redefined in subclasses

- 335 Mark the operators used to widen cast of a class
-

(More than one answer is correct)

=?
 =
 ?=
 =>
 ?TO
 ->

- 336 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

```

337 An inherited class :

(More than one answer is correct)

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

338 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
- 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
- Subclass reference variable corresponds to the superclass reference variable

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

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

340 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

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

- 341 In ABAP objects, which component is said to determine an objects behavior
-

implementation
signature
class
method

- 342 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
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'.

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

(More than one answer is correct)

Subclass does not know its superclass
A subclass is a specialization of a superclass
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

- 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.

Create Object course1.
```

(More than one answer is correct)

```

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

```

345 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 importing im_distance.
Method calc_speed Redefinition importing
im_distance type ty_dist.

```

346 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

```

347 An inherited class :

(More than one answer is correct)

```

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

```

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

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

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

only 1
only many
1 or many
none

350 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 protected components are visible to all
subclasses
Superclass private components are visible to all
subclasses

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

Inheritance
 Encapsulation
 Polymorphism
 Instantiation

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

Subclass reference variable corresponds to the superclass reference variable
 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
 Super class and subclass both point to an instance of the same class type

353 An inherited class :

(More than one answer is correct)

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

354 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
it is a characteristic when methods of the same class 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

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

(More than one answer is correct)

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

356 The syntax for static method specification

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

357 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 all active objects are marked
When objects can no longer be addressed from main memory
When there are no more references pointing to an object

358 Method

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

359 What triggers an event

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

360 What is possible with a subclass in an inheritance relationship to the superclass

(More than one answer is correct)

can add new components to the subclass
Components defined in the superclass are not present in the subclass unless they are explicitly defined in the definition of the subclass
can provide inherited methods with new implementations (redefinition)
The subclass can remove components of the superclass
inherits all the characteristics of the superclass

TAW12_1-3

- 361 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 Super-> Constructor
 Call Method Constructor-> Super

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

- 363 What component of a class guarantees its own consistency
-

static methods
 private attributes
 functional methods
 public attributes

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

```

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

```

Create Object
Create Constructor
Call Method
Call Constructor

```

366 Which statement will create an instance of a class

```

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

```

367 Define Polymorphism

(More than one answer is correct)

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
it is a characteristic when methods from different classes react differently to the same interface
the same method is implemented in different ways by redefining the method in subclasses
it is a characteristic when objects from different classes react differently to the same method call

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

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

369 Which of the following answers characterize ABAP OO events

(More than one answer is correct)

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

370 In object orientation, the term USER includes

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

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

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

372 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 can be omitted
When calling a static method, the class name is required

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

(More than one answer is correct)

Behavior
Component
Class
Aggregation
Composition

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

none
1 or many
only 1
only many

375 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 and subclass both point to an instance of the same class type
 Super class method is called from the subclass

376 The syntax for static method specification

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

377 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
 40
 30
 20
 60

378 What is possible with a subclass in an inheritance relationship to the superclass

(More than one answer is correct)

Components defined in the superclass are not present in the subclass unless they are explicitly defined in the definition of the subclass
can add new components to the subclass
The subclass can remove components of the superclass
can provide inherited methods with new implementations (redefinition)
inherits all the characteristics of the superclass

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

(More than one answer is correct)

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

380 In object orientation, the term USER includes

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

381 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?

Call Method mymethod.
 Call Method Super-> mymethod.
 You can't . Only the redefined method can be called
 Call Method Superclass-> mymethod.

382 Method

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

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

(More than one answer is correct)

Aggregation
 Behavior
 Component
 Class
 Composition

384 What is possible with a subclass in an inheritance relationship to the superclass

(More than one answer is correct)

inherits all the characteristics of the superclass
 The subclass can remove components of the superclass

Components defined in the superclass are not present in the subclass unless they are explicitly defined in the definition of the subclass
 can add new components to the subclass
 can provide inherited methods with new implementations (redefinition)

385 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.
```

386 An inherited class :

(More than one answer is correct)

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

387 Mark the operators used to widen cast of a class

(More than one answer is correct)

=?
->
=
=>
?=
?TO

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

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

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

up cast
widening cast
narrowing cast
dynamic referencing

390 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,
```

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

```
**INSTANTIATION OMITTED **
```

(More than one answer is correct)

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

- 391 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->
```

- 392 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
name is protected from outside access
price is available to methods inside the class
name is available to methods only inside the class
```

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

```

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

(More than one answer is correct)

Composition
 Aggregation
 Behavior
 Component
 Class

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

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

396 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
Redefinition
Method calc_speed Redefinition importing
im_distance type ty_dist.
Method calc_speed Redefinition.
Method calc_speed importing im_distance.

397 Identify the behaviors of Abstract Classes.

(More than one answer is correct)

Can only be implemented through an Interface
Methods can not be implemented in the subclass

Methods can only be implemented in the subclass
Cannot be instantiated

398 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
R3TR CLASS
R3TR ZCL CLASS
None of the answers are correct

399 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 value
EXPORTING Parameters for events can only be
passed by reference

400

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

encapsulation
polymorphism
casting
inheritance
instantiation

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

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
 When calling a static method, the class name is required

402 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

403 Identify the statement about Global Classes that is NOT true

Programs that are available to Global Classes must be associated in Class Builder
 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
 A method to be transported is identified in transport organiser as LIMU METH

404 The syntax for instance method specification is

(More than one answer is correct)

Call method Objref->method

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

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

(More than one answer is correct)

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

406 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 Super Constructor
Call Method Constructor

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

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

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

409 **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
 course_name = 'OBJECTS101'.

TAW12_1-3

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

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

410 Finish the sentence. Propogating exceptions requires

_____.

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

411 Finish the sentence. Propogating exceptions requires

_____.

- a handler for the exception
- 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

412 Mark the item that is NOT true about 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
- A single SET Handler command can be used to register multiple handler methods in the handler table
- Registered Methods in the handler table can only be triggered by RAISE EVENT i.e. not by CALL METHOD

413 The syntax for static method specification

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

414 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 ).
```

415 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.
```

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

416 Identify the characteristics of the self reference ME

All answers are correct
None of the answers are correct
The self-reference ME can be used to access individual components
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

417 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 ZCL CLASS
 R3TR CLASS
 None of the answers are correct
 R3TR LOCAL CLASS
 R3TR lcl_class

418 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

419 The syntax for instance method specification is

(More than one answer is correct)

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

420 Define Polymorphism

(More than one answer is correct)

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

TAW12_1-3

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

421 Identify the characteristics of the self reference ME

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

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

All answers are correct

422 Mark the operators used to widen cast of a class

(More than one answer is correct)

?=

->

=

?TO

=>

=?

423 Method

lcl_basepart->display

lcl_basepart=>display

lcl_basepart~display

lif_material~display

display

lcl_basepart~display

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

Class lcl_course definition.

Public section.

data: course_name(12) type c.

TAW12_1-3

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

425 **What statement will request memory to be allocated to an object**

Call Constructor
Create Object
Create Constructor
Call Method

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

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

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

428 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 LOCAL CLASS
R3TR ZCL CLASS
R3TR lcl_class
R3TR CLASS

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

attributes
definition
implementation
method

430 Define Polymorphism

(More than one answer is correct)

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
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 objects from different
classes react differently to the same method call

- 431 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_name = course1->name.
course_name = course1=>name.
course_price = lcl_course=>price.
```

- 432 In ABAP objects, which component is said to determine an objects behavior
-

```
signature
method
implementation
class
```

- 433 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
Redefinition
Method calc_speed importing im_distance.
Method calc_speed Redefinition.
Method calc_speed Redefinition importing
im_distance type ty_dist.

```

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

```

435 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 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

436 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

437 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).

438 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.
```

Exporting
 Changing
 Receiving
 Exceptions

439 What name is always given to a static constructor ?

class=>constructor
constructor
class_constructor
static_constructor

440 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
30
20
60
50

441 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
 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
 Class Builder can be used to test global classes

442 The syntax for instance method specification is

(More than one answer is correct)

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

443 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
30
50

444 Where is the visibility of class components defined

Class Definition
Object Instance
Class Methods
Class Implementation

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

Call Constructor
Create Object
Call Method
Create Constructor

446 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
The self-reference ME can be used to access individual components
The reference ME can be used to determine the dynamic type of the reference variable in the debugger
None of the answers are correct

447 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 reference

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

448 Method

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

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

casting
 encapsulation
 polymorphism
 instantiation
 inheritance

450 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_price = lcl_course=>price.  
course_name = name  
course_name = course1=>name.
```

- 451 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?
-

Call Method Superclass-> mymethod.
 Call Method Super-> mymethod.
 You can't . Only the redefined method can be called
 Call Method mymethod.

- 452 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

- 453 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

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

Importing
Result
Exception
Returning

455 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

456 In ABAP objects, which component is said to determine an objects behavior

class
method
implementation
signature

457 What component provides the Point of Contact for outside users

Instantiated Object
Private Attributes
Method Signature
Public Attributes

458 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

459 Finish the sentence. Propogating exceptions requires

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

460 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
 20
 30
 40
 50

461 In the following method, what other parameters are allowed

```

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

```

Receiving
Exporting
Exceptions
Changing

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

Returning
Importing
Exception
Result

463 How do you call the method in a superclass that has the same name as a redefined method in the subclass ?

Call Method Superclass-> mymethod.
You can't . Only the redefined method can be called
Call Method Super-> mymethod.
Call Method mymethod.

464 An inherited class :

(More than one answer is correct)

can redefine the public methods of the superclass
can remove superclass components
can not access the protected components

can add components over and above the superclass
 can access the inherited private components

- 465 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-> Super
 Call Method Constructor

- 466 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
 price is protected from outside access
 name is protected from outside access

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

Event
 Interface
 Method
 Attribute
 Object

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

469 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

470 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

TAW12_1-3

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

encapsulation
 instantiation
 inheritance
 polymorphism
 casting

472 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.

473 What name is always given to a static constructor ?

class_constructor
 static_constructor
 class=>constructor
 constructor

474 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
 Redefinition
 Method calc_speed importing im_distance.
 Method calc_speed Redefinition.

Method calc_speed Redefinition importing
im_distance type ty_dist.

475 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 A
SubClass Definition C
SubClass Definition D

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

477 Identify the Characteristics of a Final Class

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

478 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.

```

Exporting

Exceptions
Changing
Receiving

479 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->

480 In ABAP objects, which component is said to determine an objects behavior

method
signature
implementation
class

481 What component of a class guarantees its own consistency

public attributes
private attributes
functional methods
static methods

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

483 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).

484 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.
```

TAW12_1-3

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

(More than one answer is correct)

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

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

Event handler methods are called in the sequence that they were registered in the handler table
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
Registered Methods in the handler table can only be triggered by RAISE EVENT i.e. not by CALL METHOD

486 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  
A runtime error will occur  
The subclass is invalidated  
The superclass is invalidated
```

487 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

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

Instantiation
Encapsulation
Polymorphism
Inheritance

489 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_container points to the object that communicates with the ALV grid control
cl_grid points to the object that communicates with the container control

490 Identify the characteristics of the self reference ME

None of the answers are correct
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

TAW12_1-3

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

491 In ABAP objects, which component is said to determine an objects behavior

implementation
signature
method
class

492 An inherited class :

(More than one answer is correct)

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

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

Call Constructor
Create Object
Call Method
Create Constructor

494 Identify the Characteristics of a Final Class

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

495 What happens when the Set Handler command is executed

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

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

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

497 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.
```

Receiving
 Changing
 Exporting
 Exceptions

498 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.
```

TAW12_1-3

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

499 What is possible with a subclass in an inheritance relationship to the superclass

(More than one answer is correct)

- The subclass can remove components of the superclass
- can add new components to the subclass
- Components defined in the superclass are not present in the subclass unless they are explicitly defined in the definition of the subclass
- inherits all the characteristics of the superclass
- can provide inherited methods with new implementations (redefinition)

500 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
```

TAW12_1-3

```
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