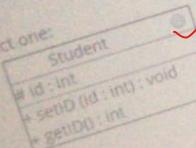


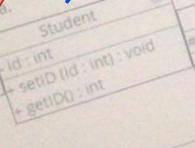
Online Exams

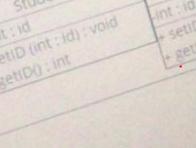
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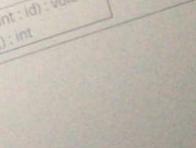
The system has three classes, Student, WeekendStudent and WeekdayStudent. WeekendStudent class and WeekdayStudent are child classes of the Student class. Select the correct UML notation for Student class.

Select one:

a.  Student  
# id : int  
+ setId (int : id) : void  
+ getId() : int

b.  Student  
# id : int  
+ setId (id : int) : void  
+ getId() : int

c.  Student  
# int : id  
+ setId (int : id) : void  
+ getId() : int

d.  Student  
# int : id  
+ setId (int : id) : void  
+ getId() : int

Online Exams

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C++ Inheritance relationship is

52  
Not answered  
Marked out of 1.00  
Flag question

Select one:

a. Association

b. Is-A

c. Has-A

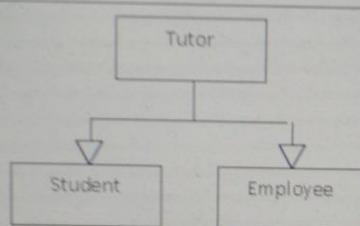
d. None

**Question 44**

Not yet answered

Marked out of  
1.00

 Flag question



What is correct about the above diagram ?

Select one:

- a. Tutor is the super class of Student and Employee.
- b. Student and Employee classes are derived from Tutor.
- c. Student and Employee classes have common properties.
- d. Tutor is a Student as well as an Employee.

**Online Exams**  
**Sri Lanka Institute of Information Technology**

A library management system has a Member class to handle members of the library and a Book class to handle books. Which of the following is the most correct relationship for Member class and Book class in library management system.

Select one:

- a. Association
- b. Inheritance
- c. Dependency
- d. Composition



5  
Covered  
of  
Question

Aggregation is



Select one:

- a. Expressing a part of a relationship and is stronger form of an association relationship.
- b. Expressing a part of a relationship and is weaker form of an association relationship.
- c. Expressing a "is-a relationship" and is stronger form of an association relationship.
- d. Expressing a "is-a relationship" and is weaker form of an association relationship.

Next page

Question 37

Not yet answered  
Marked out of  
1.00

Flag question

Consider following statements.

- A Virtual functions support dynamic polymorphism
- B Virtual functions must be non-static member function of the class
- C Constructor Functions cannot be virtual



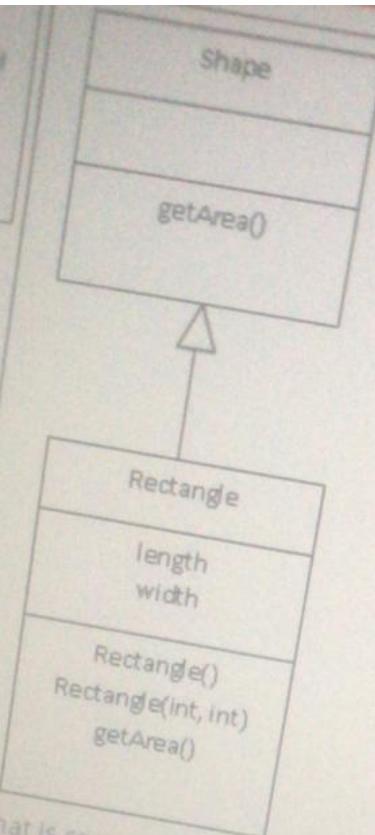
Select one:

- a. Only A is incorrect. X
- b. A and B are correct. X
- c. A, B and C are correct. X
- d. B and C are incorrect. X

Next page

Not yet answered  
Marked out of  
1.00

Flag question



What is correct about "Shape" class ?

Select one:

- a. It's an Abstract class
- b. It's a Derived class
- c. It's a Concrete class
- d. It's an Association class

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 63

Not yet answered

Marked out of 1.00

Flag question

What is the correct C++ statement to define the "Lecturer" class according to the relationship shown below?

```
graph LR; Person --> Lecturer
```

Select one:

- a. class Lecturer extends Person { X
- b. class Lecturer : public Person { X
- c. class Lecturer : Person { X
- d. class Person : public Lecturer { X

Next

# Online Exams

Sri Lanka Institute of Information Tech

Question 47

Not yet answered  
Marked out of  
1.00

Flag question

Select the false statement about the following figure given below.

The diagram shows three classes: X, Y, and Z. Class X has two associations: one to class Y with multiplicity \* and one to class Z with multiplicity 3. Class Y has one association to class Z with multiplicity 1.

Select one:

- a. One object of Z must be associated with exactly with 3 objects of X.
- b. Three objects of A are associated with multiple objects of X.
- c. There are no direct instances of Y.
- d. One objects of A must be associated with multiple objects of Y.

Handwritten notes:  
Top left: P  
Top right: 3 m)  
Bottom right: X

moodle + CIO

Online Exams

Sri Lanka Institute of Information Technology

Question 36

1/1 answered  
1 out of 1  
Marked correct

What is the main reason to have relationships between classes?

Select one:

- a. To use the functionality of one class into other
- b. To enhance the communication between classes
- c. To increase code re-usability
- d. All of the mentioned

Red arrow pointing to the question text.



When does a destructor called?

Select one:

- a. After the end of object life
- b. Anytime in between object's lifespan
- c. At end of whole program
- d. Just before the end of object life
- e. At end of class scope

 Online Exams

Sri Lanka Institute of Information

What will be the output of the following PHP code?

```
<?php  
function track() {  
    $count = 0;  
    $count++;  
    echo $count;  
}  
track(1);  
track();  
track(3);  
?>
```

Select one:

- a. 103
- b. 13
- c. 111
- d. 13
- e. 000

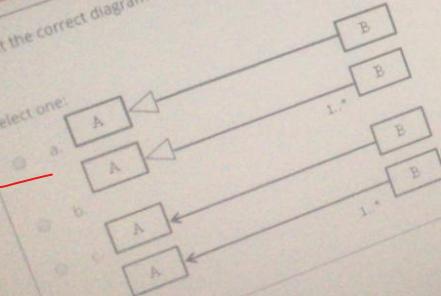
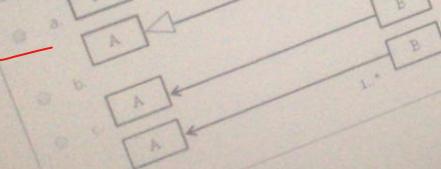
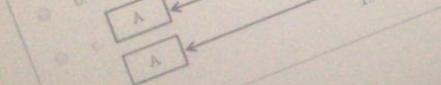
Online Exams

Sri Lanka Institute of Information Technology

Select the correct diagram to show the relationship of class A and class B, where all properties of class A are inherited to class B.

Question 33  
Not yet answered  
Marked out of 1.00  
Flag question

Select one:

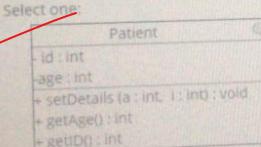
- a. 
- b. 
- c. 

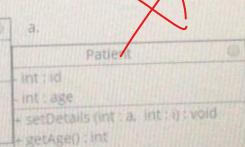
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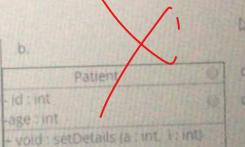
Flag question

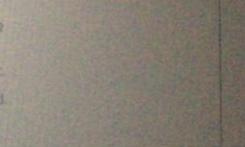
```
public class Patient {  
    int id;  
    int age;  
    public:  
        void setDetails(int a, int i);  
        int getAge();  
        int getID();  
}
```

Select one:

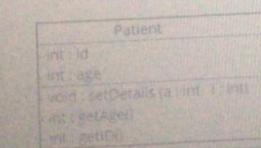


a. 

b. 

c. 

d. 



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SLIIT

Question 39  
Not yet answered  
Marked out of 1.00  
Flag question

which of the following cannot be overloaded in C++?

Select one:

- a. Increment operator
- b. Constructor
- c. Destructor
- d. New and delete operator

SLIIT ONLINE EXAMINATIONS

Sri Lanka Institute of Information Technology

on 27  
t answered  
d out of  
g question

Select the **incorrect** statement for class A, class B and class C given below.

```
graph LR; A[A] --> B[B]; B --> C[C]
```

Select one:

- a. Specialization takes place from class B to class A.
- b. Generalization takes place from class C to class B. ✓
- c. Specialization takes place from class A to class C. ✓
- d. Generalization takes place from class B to class A. ✓

**Online Exams**  
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Question 37  
Not yet answered  
Marked out of 1.00  
Flag question

The way a relationship is built in Association is,

Select one:

- a. Through constructor
- b. Through the objects of classes
- c. Through destructor
- d. Through class Names

**Online Exams**  
Sri Lanka Institute of Information Technology

Which statement is TRUE about Composition relationship?

Select one:

- a. Objects of the two classes can know about each other, but they do not affect each other's lifetime.
- b. The objects can exist independently.
- c. Relationship where one class is an integral part of the other class.
- d. None of the above



Question 38

Not yet answered

Marked out of

Flag question

Pure Virtual function can be written as

Select one:

- a. void virtual show()==0 ✗
- b. void virtual show()=0 ✗
- c. virtual void show()==0
- d. virtual void show()=0 ✗

Consider the following two classes.

```
class Person
{
    private:
        Dog *dog;
    public:
        Person();
        ~Person();
};

class Dog
{
    public:
        Dog();
        ~Dog();
};
```

What is the UML diagram that shows the relationship between Person and Dog correctly?

Selected one:

- a.
- b.
- c.
- d.

Consider the following multiplicity indicators and their meanings.

Indicator	Meaning
A. 0..1	Zero or one ✓
B. n..m	Between n and m ✓
C. 0..*	Zero or none ✗
D. 1..2	One or two
E. 0..1, 4..7	Zero or one, or between 4 and 7 inclusive ✓

Which of the above are correct?

Select one:

- a. A and C ✗
- b. A, B and C
- c. A, B, C and D
- d. All of the above

A, B, E

Online Exams

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Select the correct statement about the relationship between super class and sub classes

Select one:

- a. A sub class can only be inherited from one super class ✗
- b. The sub class must not have more attributes than the super class ✗
- c. A super class must not be abstract ✗
- d. The sub class inherits the properties of the super class.

What is the most correct statement regarding

Bank

- +code
- +Address
- +manage()
- +maintain()

ATM

- +location
- +managedBy
- +identifies()
- +transactions()

Select one.

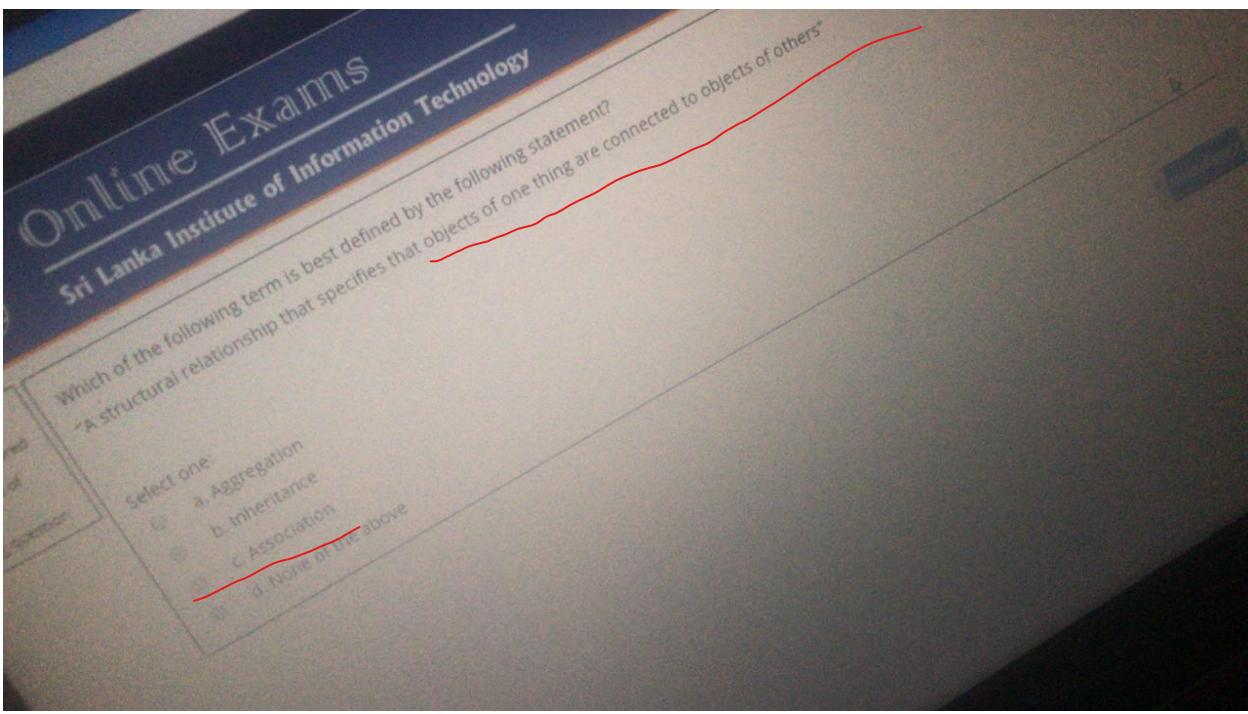
a. ATM inherits the properties of the Bank ✓

b. Bank is a generalization of ATM ✗

c. ATM is a part of Bank

d. ATM depends on the Bank to do its transaction

```
graph TD; Bank["Bank<br>+code<br>+Address<br>+manage()<br>+maintain()"] -- "diamond" --> ATM["ATM<br>+location<br>+managedBy<br>+identifies()<br>+transactions()"]
```



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What is the keyword that is used before a function in a base class to be overridden in derived class in C++ ?

Select one:

- a. override
- b. virtual
- c. void
- d. none

[Next page](#)

Which of the following is true about constructors.

- A) They cannot be virtual ✓
- B) They cannot be private. ✗
- C) They are automatically called by new operator.

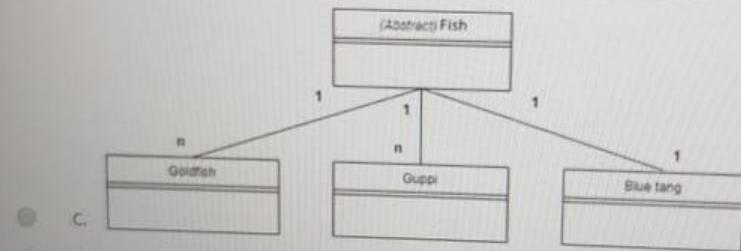
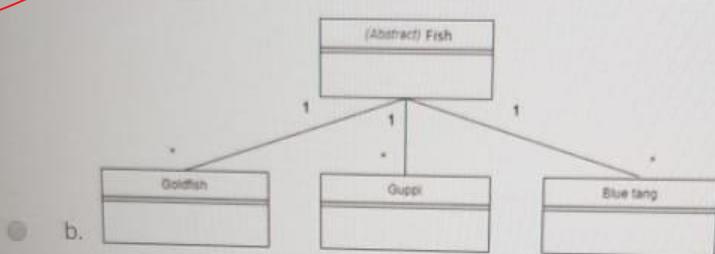
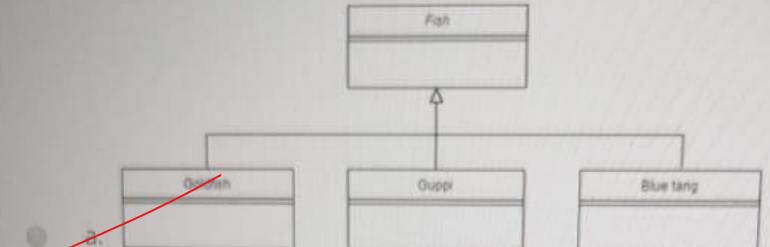
Select one:

- a. A, B and C
- b. A and C
- c. B and C
- d. A and B
- e. Only A

How do you model the following scenario using a class diagram.

"There are different fish species. E.g.-Goldfish, Guppy ,Blue tang"

Select one:



Both b and c are correct

e. None of the above are correct

Unanswered  
0 out of  
1 question

If Rectangle is a class, Rectangle \*r will

Select one:

- a. Create a static object of Rectangle class.
- b. Create a dynamic object of Rectangle class.
- c. Create a variable of Rectangle class.
- d. None of the above.



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Select the **incorrect** statement for class A, class B and class C given below.

Diagram showing inheritance relationship:

```
graph LR; A[A] --> B[B]; B --> C[C]
```

Select one or more:

a. Class B inherits the properties of class C.

b. Class C inherits the properties of class B. ✓

c. Class B inherits properties of class A. ✓

d. Class C inherits the properties of class A. ✓

e. Class A inherits the properties of Class C

Question 1  
Not yet answered  
Marked out of 1.00  
Flag question

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Functions that can be inherited from base class

Select one:

- a. Constructor
- b. Destructor
- c. Static Functions
- d. a, b, and c
- e. None of the above

Next page

Question 11  
Not yet answered  
Marked out of 1.00  
Flag question

What is Inheritance?

Select one:

- a. Overloading of classes
- b. Classes with same names
- c. Derive new classes from existing classes
- d. Wrap data into one class

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2020-11-27

**Online Exams**

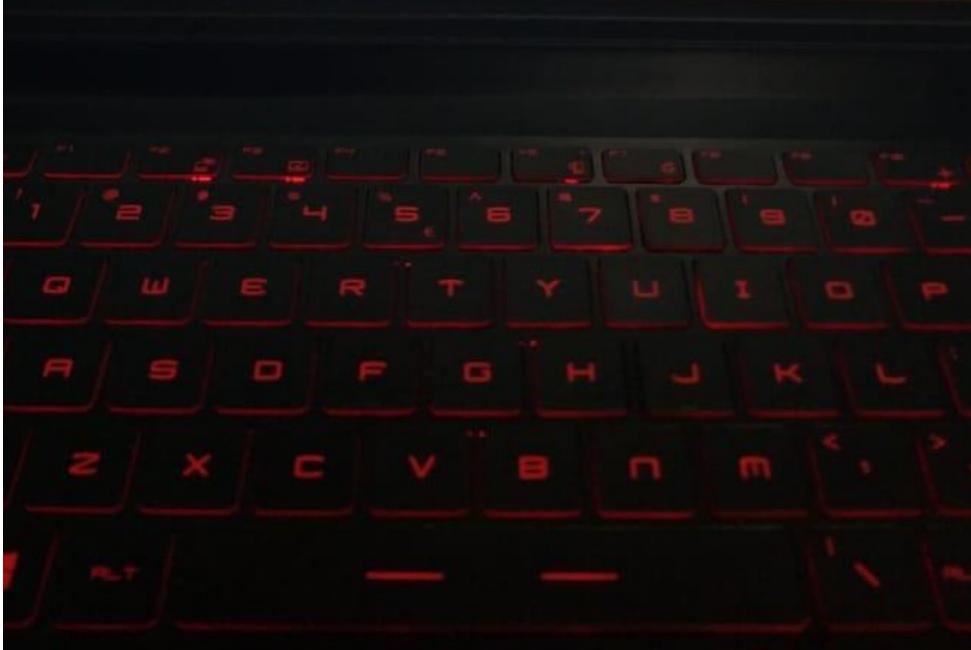
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There is a "Speech" class with a method called convert() that takes "Script" object as an input. The convert() function transform the script to mp3. Which of the following relationship exists between "Speech" and "Script" classes?

Select one:

- a. Composition *(Handwritten mark: X)*
- b. Dependency *(Handwritten mark: Underlined)*
- c. Association
- d. Aggregation
- e. Inheritance

[Next page](#)

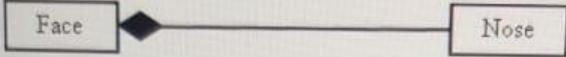
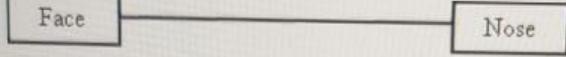
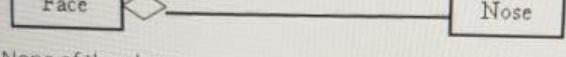


# Online Exams

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Select the most correct diagram to show the relationship of **Face** class and **Nose** class.

Select one:

- a. 
- b. 
- c. 
- d. 
- e. None of the above

How many instances of an abstract class can be created?

Select one:

- a. 1
- b. 5
- c. 3
- d. 0
- e. Any number up to infinity



Question 1

Not yet answered

Marked out of  
1.00

Flag question

Which of the following is true about constructors.

- A) They cannot be virtual
- B) They cannot be private.
- C) They are automatically called by new operator.

Select one:

- a. A, B and C
- b. A and C
- c. B and C
- d. A and B
- e. Only A

# Online Exams

Sri Lanka Institute of Information Technology

How to statically allocated object called 'a' for class 'A' in C++ ?

Select one:

- a. A \*a = new A();
- b. A a;
- c. A a = new A( );
- d. public : A a;
- e. None of the above.

# Online Exams

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Select the incorrect statement.



Select one:

- a.  
The class "Z" depends on the class "X". ✓
- b.  
Changes to class "X" may affect the class "Z". ✓
- c.  
Changes to class "Z" may affect the class "X".
- d.  
A "Z" object uses a "X" object somewhere as a parameter in one of its methods.
- e. Life span of "X" depend on "Y"





Which relationship says that objects are strongly dependent?

Select one or more:

- a. Aggregation only
- b. Association
- c. Composition and Dependency
- d. Composition
- e. Composition and Aggregation

 Online Exams

Sri Lanka Institute of Information Technology

Yamuna wants to write multiple functions in a class with same name, what C++ feature will Yamuna use?

Select one:

- a. Function Overriding
- b. Encapsulation
- c. Function overloading
- d. Virtual function
- e. None of the above

→

In a class, encapsulating an object of another class is called

Select one:

- a. Composition
- b. Inheritance
- c. Encapsulation
- d. Aggregation
- e. Dependency

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Question 12  
Not yet answered  
Marked out of 1.00  
Flag question

Shape

```
graph TD; Shape[Shape] --> Rectangle[Rectangle]; Shape.getArea();
```

getArea()

Rectangle

```
graph TD; Rectangle.length["length<br>width"]; Rectangle.RectangleInit["Rectangle()"; "Rectangle(int, int)"];
```

length  
width

Rectangle()  
Rectangle(int, int)

getArea()

What is correct about "Shape" class ?

Select one:

- a. It's an Abstract class
- b. It's a Derived class
- c. It's a Concrete class
- d. It's an Association class
- e. None of the Above

≡ Quiz navigation

MCO- 40 MARKS

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52
----	----

FEEDBACK

53

Finish attempt...  
Time left 1:38:44

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Question 14  
Not yet answered  
Marked out of 1.00  
Flag question

What is true about overloading and overriding among the following?

Select one:

- a. Overloading happens within the same class ✓
- b. Overriding can occur without inheritance. ✗
- c. The function signature should be changed in overriding. ✗
- d. All of the above ✗
- e. None of the Above ✗

Which of the following statements are not true about destructor?

- A. It is invoked when object goes out of the scope
- B. Like constructor, it can also have parameters
- C. It can be virtual
- D. It can be declared in private section
- E. It bears same name as that of the class and precedes Lambda sign

Select one:

- a. A, B, C and E
- b. B, C and D
- c. B, D and E
- d. C, D and E
- e. A, B and C



Online Exams

Sri Lanka Institute of Information Technology

Question 5  
Not yet answered  
Marked out of 1.00  
Flag question

Aggregation is

Select one:

- a. Expressing a part of a relationship and is stronger form of an association relationship.
- b. Expressing a part of a relationship and is weaker form of an association relationship.
- c. Expressing a "is-a relationship" and is stronger form of an association relationship.
- d. Expressing a "is-a relationship" and is weaker form of an association relationship.
- e. Expressing a "is-a relationship" and is stronger form of an inheritance relationship.

Next page

≡ Quiz navigation

MCQ- 40 MARKS

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25	26	27	28	29	30	31
33	34	35	36	37	38	39

STRUCTURED- 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52
----	----

FEEDBACK

53

Sri Lanka Institute of Information Technology

Question 10  
Not yet answered  
Marked out of 1.00  
Flag question

What type of a relationship is represented by Person class and Student Class?

```
classDiagram
    class Person {
        Name
        Phone Number
        Email Address
        Purchase Parking Pass
    }
    class Student {
        Student Number
        Average Mark
        "it's"
        "Associate To Enroll"
        "Get Seminars Taken"
    }
    class Professor {
        Salary
    }
    Person "1..>" Student : Purchase Parking Pass
```

Select one or more:

- a. Dependency
- b. Aggregation
- c. Generalization
- d. Realization
- e. Specialization

Next page

≡ Quiz navigation

MCQ- 40 MARKS

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

STRUCTURED- 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52
----	----

FEEDBACK

53

Finish attempt...  
Time left 1:45:12

Moodle x

→ X C | i | A

 Online Exams

Sri Lanka Institute of Information Techno

Question 5  
Not yet answered  
Marked out of 0  
Flag question

Compile time polymorphism in C++ are

Select one or more:

- a. Operator overloading
- b. Function overloading
- c. Function overriding
- d. All of the above
- e. None of the above



Question 14  
Not yet answered  
Marked out of  
1.00  
[Reg question](#)

Which statement is FALSE about Dependency?

Select one:

- a. A Weaker type of relationship, where the class uses-an otherwise unrelated object
- b. In dependency, one sub class uses another class to perform a task.
- c. The dependent class typically is not a member of the class using it.
- d. None of the above
- e. All of the above

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#### Quiz navigation

MCQ- 40 MARKS

1	2	3	4	5	6	7	8
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17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49 50							

ESSAY- 40 MARKS

51	52
----	----

FEEDBACK

53
----

DELL



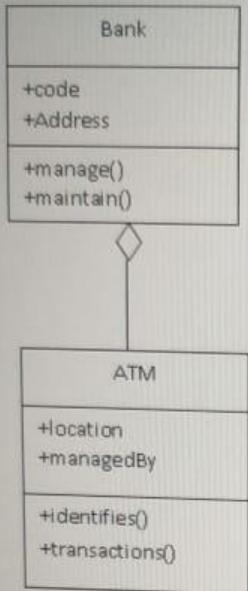
## Functions that can be inherited from base class

Select one:

- a. Constructor
- b. Destructor
- c. Static Functions
- d. a, b, and c
- e. None of the above



What is the most correct statement regarding the following diagram ?



Select one:

- a. ATM inherits the properties of the Bank
- b. Bank is a generalization of ATM
- c. ATM is a part of Bank
- d. ATM depends on the Bank to do its transaction
- e. None of the above



John and Mike are working as programmers of an object-oriented project. John is responsible in creating the system using the real entities of the system. Mike is responsible in creating the classes required for the system. Name who must do the implementation first.

Answer:

Mike

Next

← → × C | ① | A

1/20/2016 Maruthavas M.K.C.N 10/10/2016



### Online Exams

Sri Lanka Institute of Information Technology

Question 9  
Not yet answered  
Marked out of  
1.00  
Flag question

What is incorrect about "Aggregation" Relationship based on the below details?  
A Department has one or more employees.

Select one:

- a. This implies that the Part can exist without the Whole.
- b. Objects have their own life cycles and there is no ownership.
- c. The Department and Employee objects have their own life cycles. ✓
- d. If the Department object is deleted, the Employee objects will get deleted automatically.
- e. If the Employee objects is deleted, still the Department object can exist.

12

Next page

≡ Quiz navigation

MCQ- 40 MARKS

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25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

STRUCTURED -20 MARKS

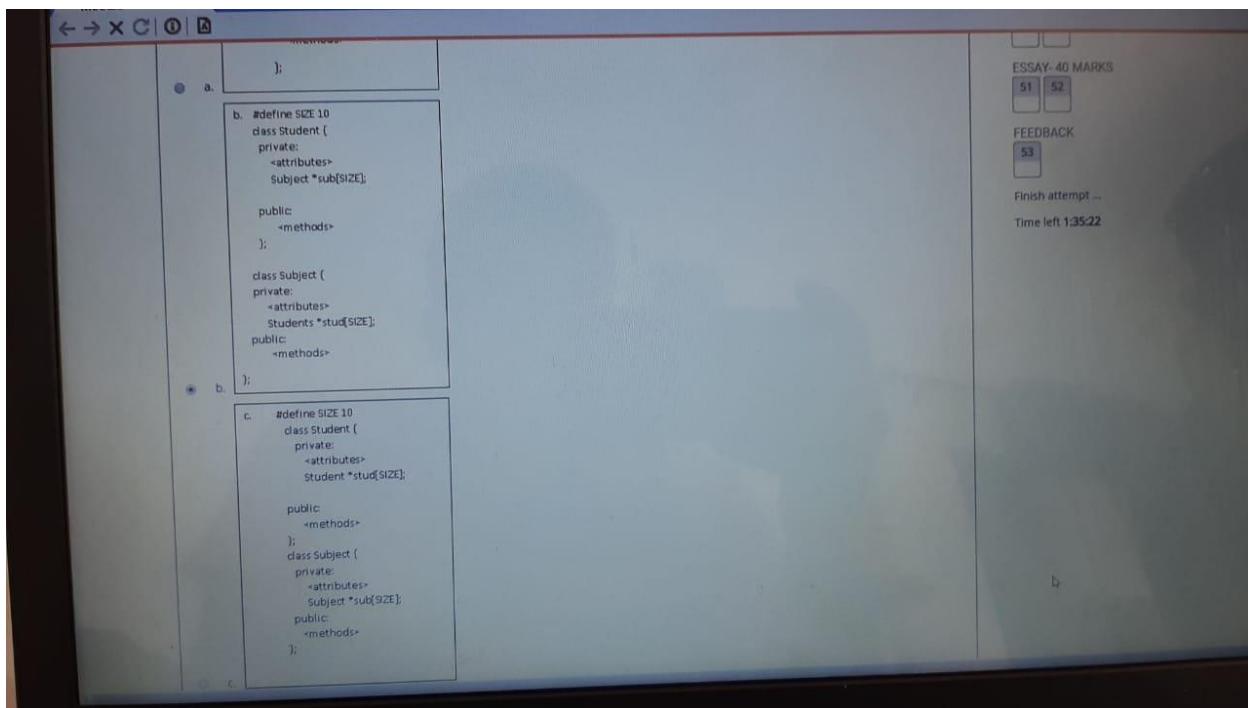
41	42	43	44	45	46	47	48
49 50							

ESSAY- 10 MARKS

51	52
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FEEDBACK

53
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A

# Online Exams

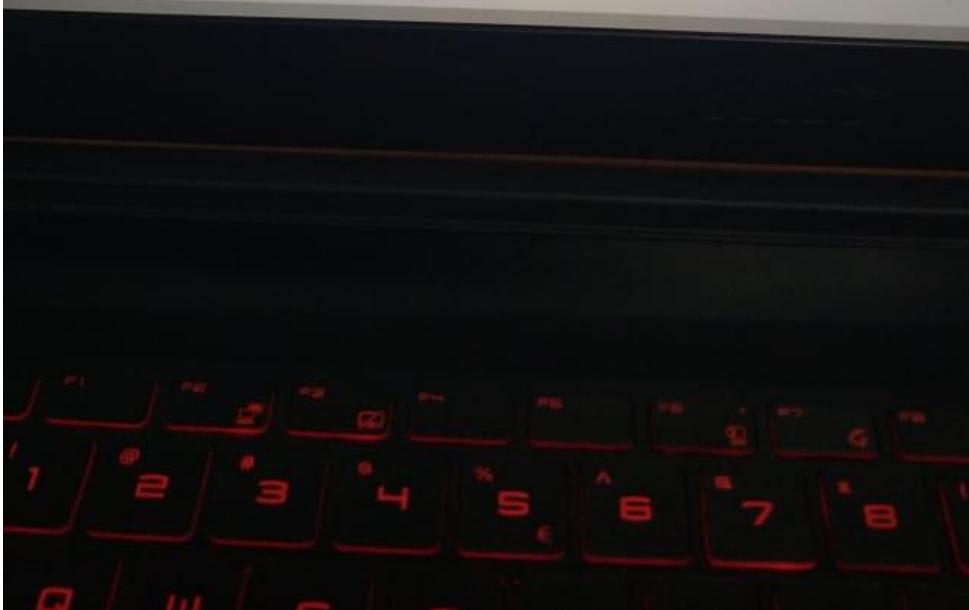
Sri Lanka Institute of Information Technology

Which of the following terms is best defined by the following statement?  
"A structural relationship that specifies that objects of one thing are connected to objects of others"

Select one:

- a. Aggregation
- b. Inheritance
- c. Association
- d. Both Composition and Aggregation
- e. None of the Above

►



on 15  
it answered  
ed out of  
g question

What is the main reason to have relationships between classes?

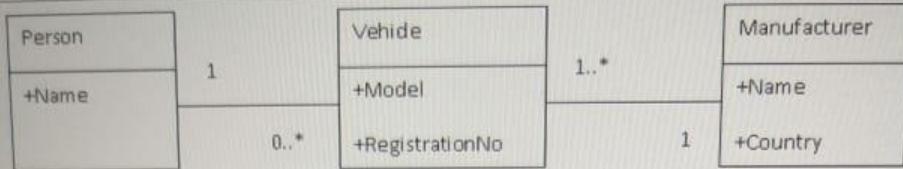
Select one or more:

- a. To use the functionality of one class into other
- b. To be able to duplicate the classes,
- c. To increase code re-usability
- d. To enhance the communication between classes
- e. To have more attributes in classes

Next

# Online Exams

Sri Lanka Institute of Information Technology



Select the correct statement regarding the diagram shown above.

Select one:

- a. A person must own at least one vehicle ✓
- b. A vehicle can be manufactured by more than one manufacturer. ✓
- c. A manufacturer can manufacture more than one vehicle ✓
- d. A vehicle can be owned by more than one person ✗
- e. None of the Above

F1 F2 F3 F4 F5 F6 F7  
1 / @ 2 | \* 3 | ^ 4 % 5 | ^ 6 | ^ 7

Online Exams

Sri Lanka Institute of Information Technology

42 answered out of 42 questions

Reject Projects

A computer manufacturer company needs to develop an online shopping system to enable purchasing of their computers for customers.

Write two nouns in this scenario, which can be rejected as classes C\lass

Answer B / E / P / S / Q

Online Exams

Sri Lanka Institute of Information Technology

Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

Select the correct statement about the relationship between super class and sub classes

Select one or more:

- a. A sub class can only be inherited from one super class X
- b. The sub class must not have more attributes than the super class X
- c. A super class must not be abstract X
- d. The sub class inherits the properties of the super class ✓
- e. A sub class can only inherit the protected properties of a super class ✓

Next page

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52						
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FEEDBACK

53

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 2  
Not yet answered  
Marked out of 1.00  
Flag question

Data members and the member functions of a class are by default;

Select one:

- a. private
- b. public
- c. protected
- d. All of the above
- e. None of the above

Next page

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52						
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FEEDBACK

53

Online Exams

Sri Lanka Institute of Information Technology

Inheritance allows;

Select one or more:

- a. class re-usability
- b. Extendibility
- c. creating a hierarchy of classes
- d. class recyclability
- e. All of above

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MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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49	50						

ESSAY- 40 MARKS

51	52
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FEEDBACK

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Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 4

Not yet answered

Marked out of 1.00

Flag question

Which operator is used to allocate an object dynamically in C++ ?

Select one:

- a. Scope resolution Operator
- b. increment operator
- c. new operator
- d. assignment operator
- e. conditional operator

Next page

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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49	50						

ESSAY- 40 MARKS

51	52
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FEEDBACK

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Online Exams

Sri Lanka Institute of Information Technology

lt2001074

44  
answered  
out of  
question

Write three function prototypes to define function overloading using C++ programming language to calculate the summation of two integer values, calculate the summation of three integer values and calculate the summation of two float values.

void Sum(int num1, int num2)  
void Sum(int num1, int num2, int num3)  
void Sum(float num1, float num2)

# Online Exams

Sri Lanka Institute of Information Technology

What is the correct way of creating an object of a class called Car ?

Select one or more:

- a. Car car1;
- b. Car \*car1 = new Car();
- c. Car : obj;
- d. class Car : public obj; X
- e. private car = new obj(); X

A photograph of a computer screen displaying a web-based quiz from the Sri Lanka Institute of Information Technology. The background of the slide features a decorative pattern of marigold flowers on a dark blue banner.

Sri Lanka Institute of Information Technology

John and Mike are working as programmers of an object-oriented project. John is responsible in creating the system using the real entities of the system. Mike is responsible in creating the classes required for the system. Name who must do the implementation first.

Answer:  MIKE

[Next page](#)

A close-up photograph of a black computer keyboard. The keys are labeled with white or red letters, and the overall lighting is dim, making the red lettering stand out.

Online Exams  
Sri Lanka Institute of Information Technology

Question 14  
Not yet answered  
Marked out of 1.00  
Reg question

Which statement is FALSE about Dependency?

Select one:

- a. A Weaker type of relationship, where the class uses-an otherwise unrelated object.
- b. In dependency, one sub class uses another class to perform a task.
- c. The dependent class typically is not a member of the class using it.
- d. None of the above
- e. All of the above

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Quiz navigation

MCQ- 40 MARKS

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STRUCTURED -20 MARKS

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49	50						

ESSAY- 40 MARKS

51	52						
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FEEDBACK

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Moodle

Online Exams  
Sri Lanka Institute of Information Technology

Question 16  
Not yet answered  
Marked out of 1.00  
Reg question

Select the correct diagram to show the relationship of class A and class B, where one or many objects of class B is a part of an object of class A, and objects of class B **cannot** exist without an object of class A.

Select one:

- a. 
- b. 
- c. 
- d. 
- e. None of the Above

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Quiz navigation

MCQ- 40 MARKS

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STRUCTURED -20 MARKS

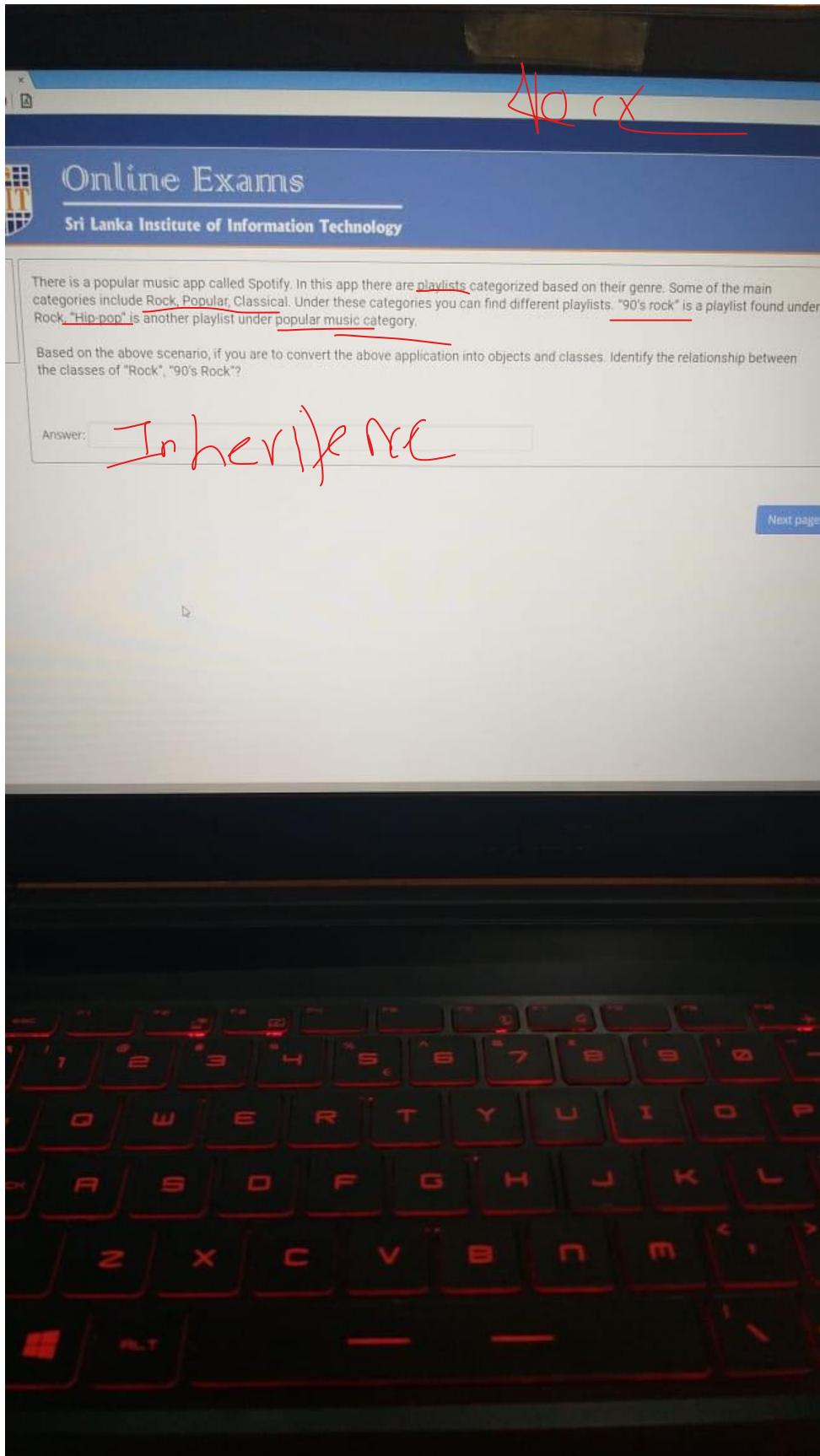
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49	50						

ESSAY- 40 MARKS

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FEEDBACK

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Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 41  
Not yet answered  
Marked out of 1.00  
Flag question

There is a popular music app called Spotify. In this app there are playlists that contains a collection of songs categorized based on their genre. Some of the main categories include Rock, Popular, Classical. Under these categories you can find different playlists. "90's rock" is a playlist found under Rock, "Hip-pop" is another playlist under popular music category.

Based on the above scenario. If you are to convert the above application into objects and classes. Identify the relationship between the classes of "Playlist", "Song"?

Answer: Position

Next page

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

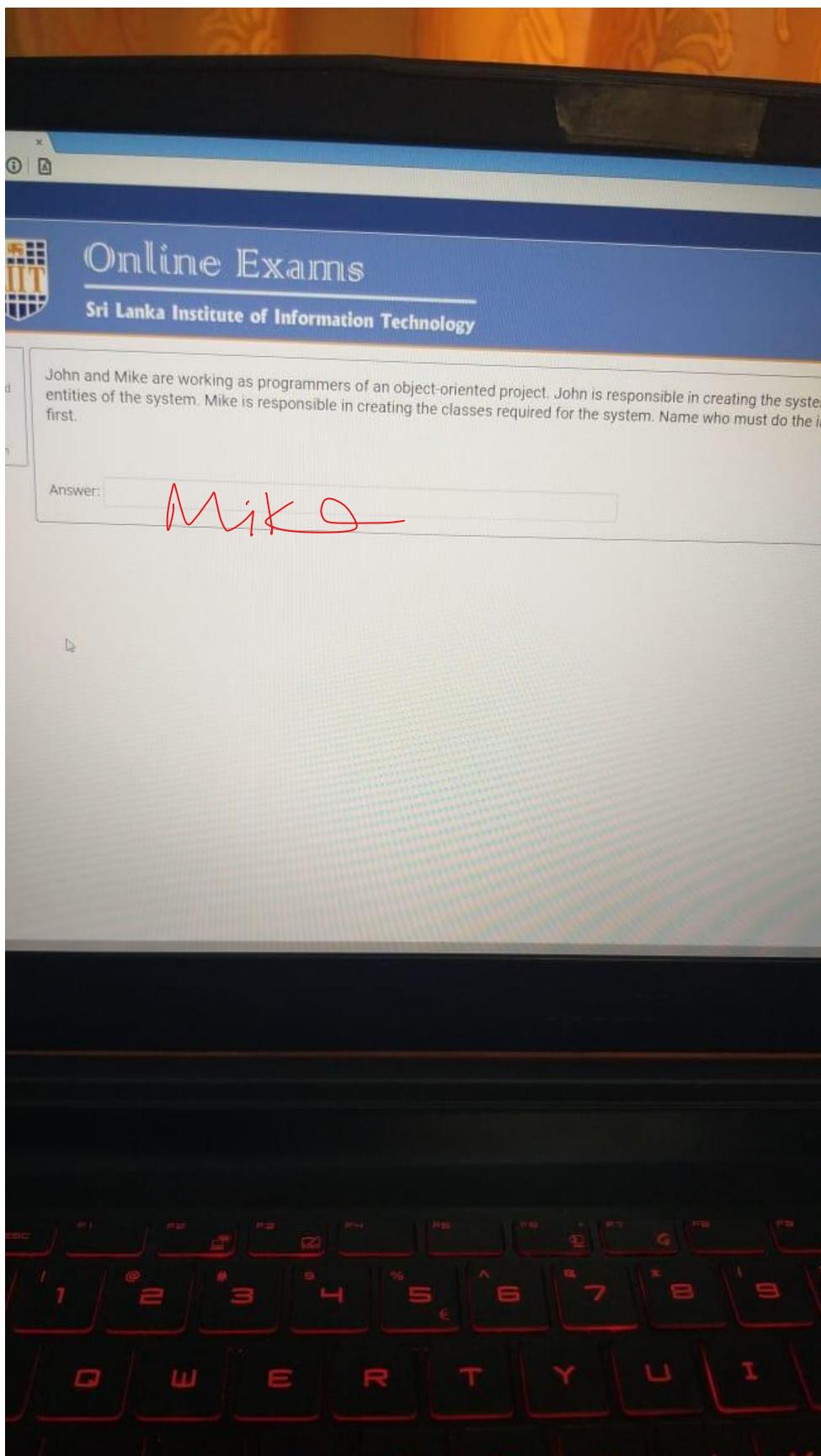
ESSAY- 40 MARKS

51	52
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FEEDBACK

53
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The image shows a computer screen displaying an online exam from the Sri Lanka Institute of Information Technology (SLIIT) Moodle platform. The question is about Spotify's playlist structure. The user has handwritten 'Position' as an answer. The interface includes navigation buttons like 'Next page' and a 'Quiz navigation' section with numbered boxes for different question types.





# Online Exams

Sri Lanka Institute of Information Tech

Which of following does not have a body?

Select one:

- a. An Interface
- b. Class
- c. Abstract method
- d. Virtual Function X →
- e. Contractor

Question 52  
Not yet answered  
Marked out of  
1.00  
 Flag question

The time scheduling system should let the architects register their daily appointments details with their clients. The information to be stored include the name of the client, with whom the appointment/ meeting is arranged, venue, the time, duration and the description of the appointment. When a meeting involves many architects the system should automatically find a common slot in the daily appointment files (diaries) of each concerned architect, and arrange the meeting. (i.e. make relevant entries in the diaries of all the concerned architects) at the time of registration. While the concerned architects should be informed of the details about the scheduled meetings through emails the schedule file should also be updated on every scheduled meeting.

The time scheduling system should send a reminding email to all architects about their appointments for the corresponding day. Besides registering their appointments or meetings, the architects might mark periods of which they plan to be on leave in the diary. Also, architects might mention in their diaries any other engagements they have.

The time scheduling system should be able to provide several types of statistics (several documents) for the top level managers, such as which architects spent how much time on a meeting, for which project how many meetings were organized and for what duration and how many man hours were devoted for such meetings.

13  
Answered  
3 out of  
5 question

Which of the following term is best defined for the following statement?

"A process in which one object acquires all the properties and behaviors of its parent object automatically."

Select one:

- a. Association
- b. Dependency
- c. Aggregation
- d. Generalization
- e. Composition

Next page

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 20  
Not yet answered  
Marked out of 1.00  
Flag question

False statement about function overloading is

Select one:

- a. Defining multiple function with same name in a class is called function overloading
- b. Overloaded function must differ in their order and types of arguments
- c. Overloaded functions should be preceded with virtual keyword
- d. Answer a and b
- e. Answer a and c

Next page

MCQ-40 MARKS

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STRUCTURED-20 MARKS

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ESSAY-40 MARKS

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FEEDBACK

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620120194 Manikandan M K C 13/03/2019

Observe the given code segment of Rectangle class implementation.

```
#include <iostream>
using namespace std;

class Rectangle
{
private:
    float width;
    float length;
public:
    Rectangle(float l, float w )
    {
        width = w;
        length = l;
    }

    float calcArea()
    {
        return width * length;
    }
    ~Rectangle()
    {
        cout<<"A dynamic object is deleted.. "<<endl;
    }
};
```

Within the main program, following statement is included.

```
Rectangle *r = new Rectangle(10, 2);
```

Write a code segment that can be used to execute **destructor**.

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 18  
Not yet answered  
Marked out of 1.00  
 Flag question

In inheritance, what functions can be inherited from base class in C++ program

Select one:

- a. Constructor
- b. Destructor
- c. Static function
- d. All of the above
- e. None of the Above

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MCQ-40 MARKS

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STRUCTURED-20 MARKS

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49	50						

ESSAY-40 MARKS

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----	----

FEEDBACK

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Moodle

public:  
    <methods>  
};

c.

d. #define SIZE 10  
class Student {  
private:  
    <attributes>  
public:  
    <methods>  
};  
class Subject {  
private:  
    <attributes>  
    Student \*stud[SIZE];  
public:  
    <methods>  
};

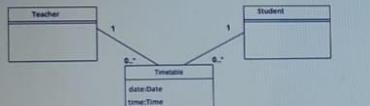
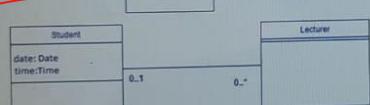
e. #define SIZE 10  
class Student {  
private:  
    Subject s;  
public:  
    <methods>  
};  
class Subject {  
private:  
    <attributes>  
    Student s;  
public:  
    <methods>  
};

11  
Answered  
out of  
Question

How do you model the following scenario using a class diagram?

A lecturer teaches multiple classes and a class can be taught by many lecturers. A timetable is used to document the time and date of each lecture held.

Select one:

- a. 
- b. 
- c. Both a and b are correct.
- d. Both a and b are incorrect.
- e. Only b is correct.

## Quiz navigation

## MCQ- 40 MARKS

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## STRUCTURED- 20 MARKS

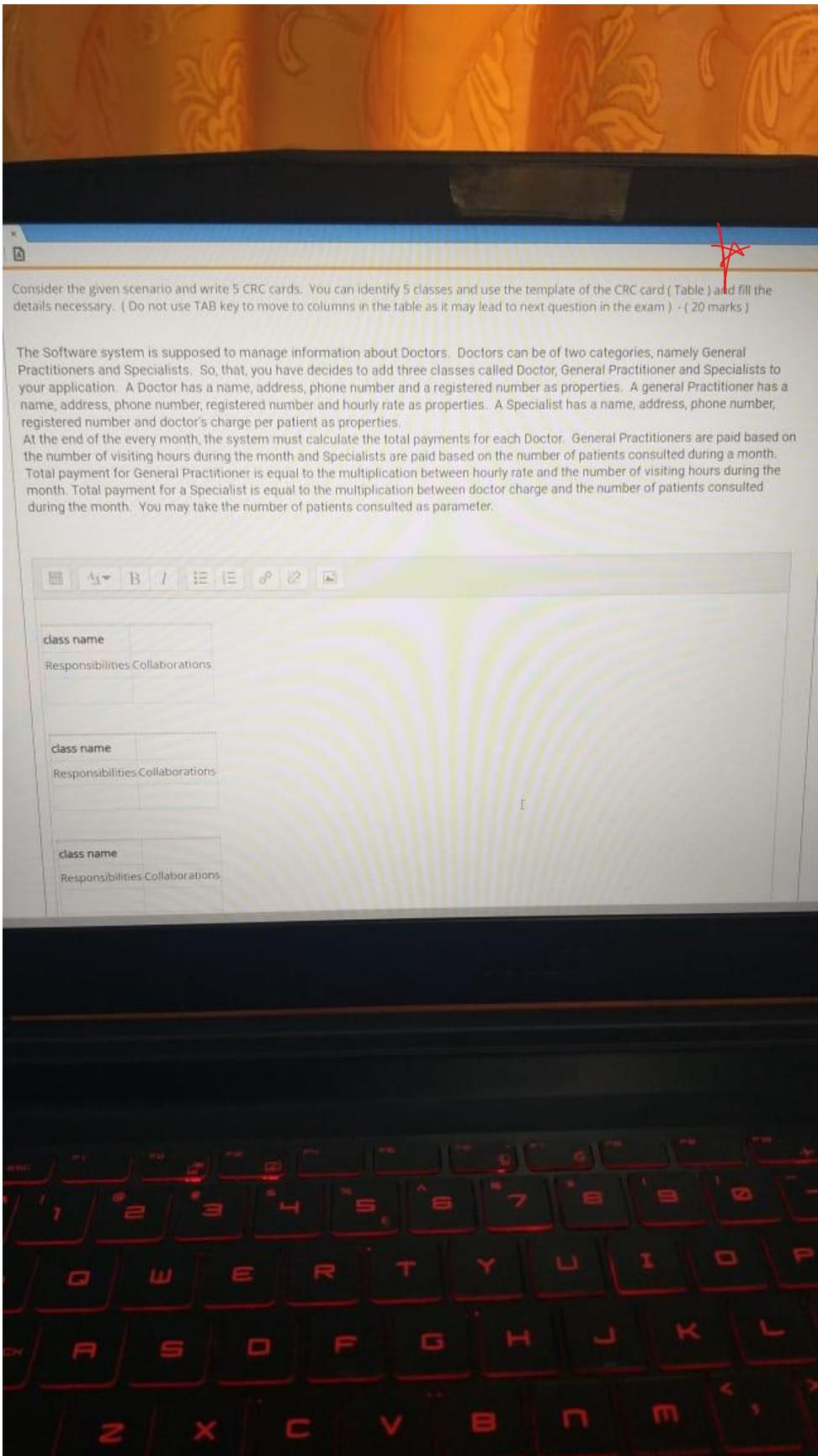
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## ESSAY- 40 MARKS

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## FEEDBACK

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Online Exams

Sri Lanka Institute of Information Technology

Question 7  
Not yet answered  
Marked out of 1.00  
Flag question

Following keyword is used before a function in a base class to be overridden in derived class in C++;

Select one:

a. override  
 b. virtual  
 c. void  
 d. none  
 e. protected

Next page

☰ Quiz navigation

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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ESSAY- 40 MARKS

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----	----

FEEDBACK

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Online Exams

Sri Lanka Institute of Information Technology

A computer manufacturer company needs to develop an online shopping system to enable purchasing of their computers for customers.  
Write two Rules for Rejecting nouns in this scenario.

Computer manufacturer company - out of scope

online shopping → <sup>is</sup> <sup>out of scope</sup> <sup>reject</sup> <sup>rule 1</sup> <sup>rule 2</sup>

Next page

☰ Quiz navigation

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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ESSAY- 40 MARKS

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FEEDBACK

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Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 43  
Not yet answered  
Marked out of 0.00  
Flag question

"Jessica, Lilia, Kyson and Kaden are Employees". Name all potential objects in this phrase.

Next page

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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49	50					

ESSAY - 40 MARKS

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A red mark is visible on the screen, likely a grade or a mark.

Read the following description and write the coding of **5 classes** you have identified using a class diagram. You need not upload or / draw the class diagram here. You have to only write the coding of the classes showing the relationships clearly. You need not write all methods of the classes or the attributes. You may need to include the necessary methods and the attributes only to show the correct relationships between the classes. ( Do not use the TAB key while you type in the answer box as it may go to next Question ) - (20 marks)

Once an employee joins the company HR manager introduced him/her to all other employees in the department he/she is allocated to work. Then the employee is given papers to fill out his/her information. the HR manager hands over the filled forms to data entry operator for the registration of the newly joined employee.

When an employee joins, the HR manager assigns a grade to each employee. Accountant is responsible to calculate employee's net salary. Calculation of Net salary varies according to the grades assigned.

When an employee leaves the organization, the HR manager can delete the employee record immediately or the record can be retained for one year as a pending record. Employees are eligible for promotions according to their performances. So the corresponding grades and details of an employee can be changed, when an employee is promoted to a higher grade. Updating the employee details is the responsibility of HR manager.

Employees can request for leave through the system. To request a leave the system, employee must login. The senior HR manager approves the requested leave of the employees in the organization. The senior HR manager has the ability to generate attendance reports, salary summary report and monthly reports. Employees are given 21 days of leave, as 07 days casual and 14 days annual. When an employee requests a leave, the system checks for the leave type and it automatically forwards the request to the Senior HR Manager. Then the Senior HR Manager approves the requested leave. Furthermore Employees can view their salary details online if they have a login.

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 1  
Not yet answered  
Marked out of 1.00  
Flag question

In QOP, hiding the complexity is known as

Select one:

- a. Abstraction
- b. Encapsulation
- c. Information Hiding
- d. Inheritance
- e. Polymorphism

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Quiz navigation

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49 50
ESSAY- 40 MARKS
51 52
FEEDBACK
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Not yet answered  
Marked out of 1.00  
Flag question

Select the incorrect statement/statements about a class and its relationships.

I. Only the attributes of the parent class will be inherited to the child class. X

II. A class can be the parent class for several child classes. X

III. Destructor of a class can be overloaded. X

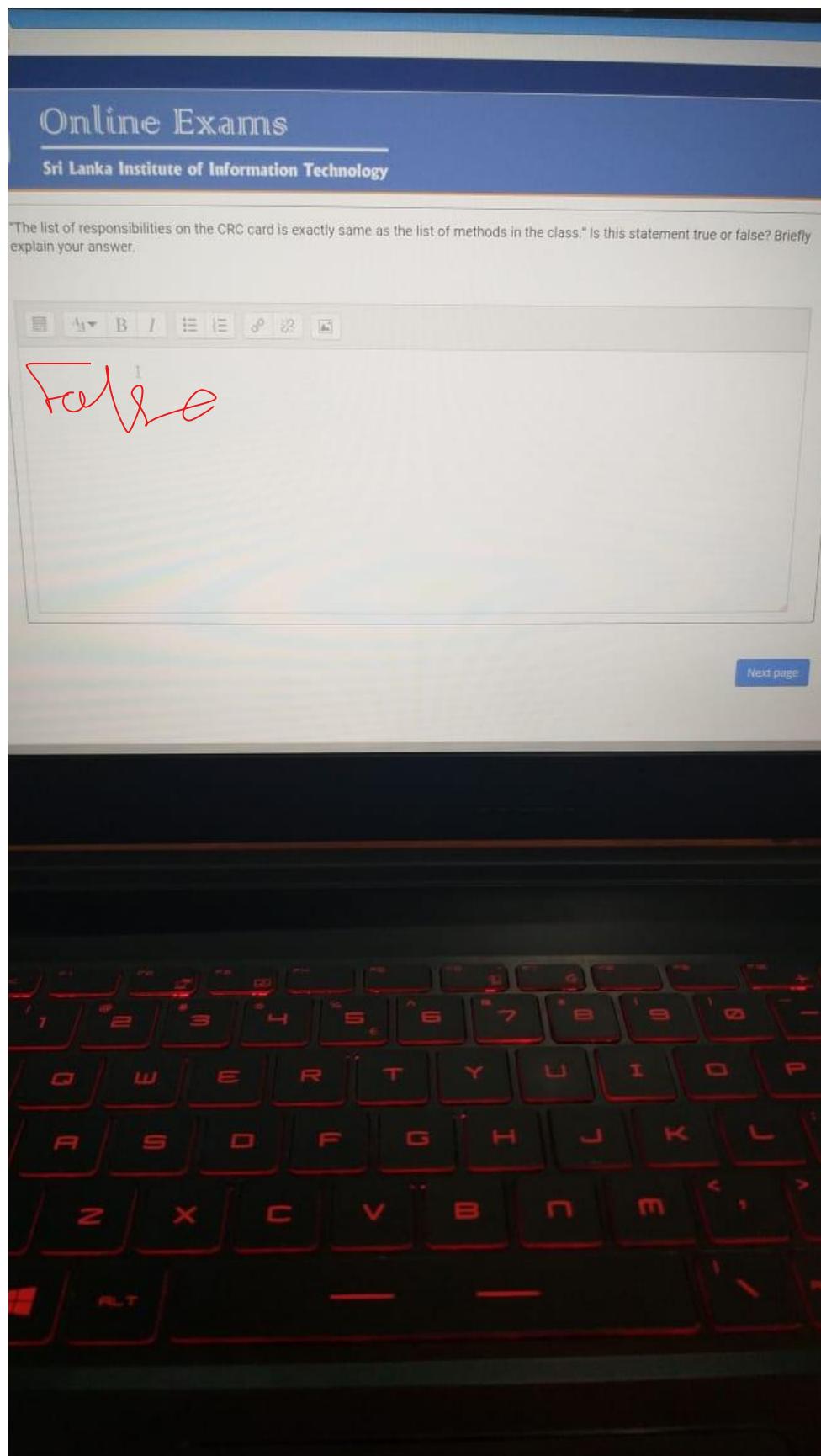
Select one:

- a. (I) and (II)
- b. (I) and (III)
- c. (II) and (III)
- d. All of the above
- e. None of the above

Next page

Quiz navigation

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STRUCTURED - 20 MARKS
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Online Exams

Sri Lanka Institute of Information Technology

The way a relationship is built in Association is.

Select one:

- a. Through constructor
- b. Through the objects of classes
- c. Through destructor
- d. Through class Names
- e. Though a method of the class.

Next page

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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49	50						

ESSAY- 40 MARKS

51	52						
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FEEDBACK

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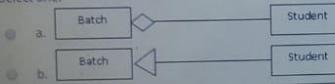
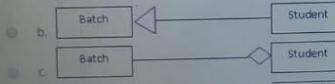
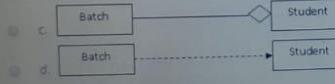
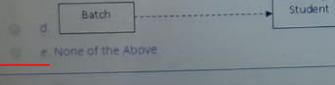
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Sri Lanka Institute of Information Technology

What is the correct UML diagram that represents the relationship shown in the coding below ?

```
class Batch
{
private:
    int year;
    string name;
    int count;
public:
    Student *students[MAX];
    Batch(int pyear, string pname);
    void display();
};
```

Select one:

- a. 
- b. 
- c. 
- d. 
- e. None of the Above

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MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52						
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FEEDBACK

53

Finish attempt...

Time left 1:23:49



Inheritance relationship is

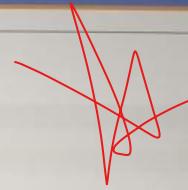
Select one or more:

- a.  
Part of A
- b.  
Is-A
- c.  
Has-A
- d. Kind of A
- e. Not part of A

Which kind of relationship type exist in the following code segment?

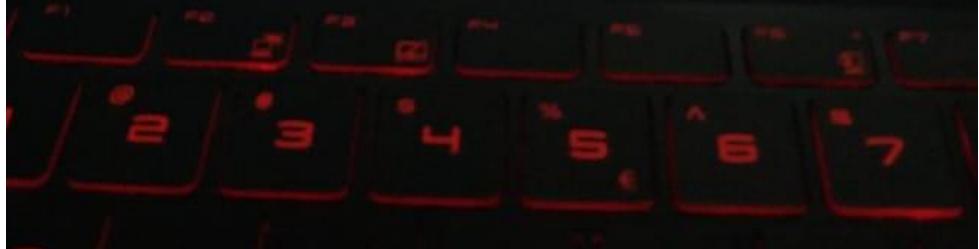
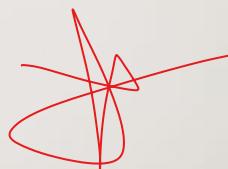
```
class Fraction
{
private:
    int m_numerator;
    int m_denominator;

public:
    Fraction(int numerator=0, int denominator=1)
        : m_numerator(numerator), m_denominator(denominator)
    {
        // We put reduce() in the constructor to ensure any fractions we make get reduced!
        // Since all of the overloaded operators create new Fractions, we can guarantee this will get called here
        reduce();
    }
};
```



Select one:

- a.  
Aggregation
- b.  
Both Association and Composition
- c.  
Composition
- d.  
Inheritance
- e. Dependency



Moodle

Online Exams

Sri Lanka Institute of Information Technology

it20120184 Mandawela M.K.C.N it20120184

Question 17  
Not yet answered  
Marked out of 1.00  
Reg question

In given multiple inheritance, class C inherits class B, and Class B inherits class A. In which sequence are their destructors called, if an object of class C was declared?

Select one:

- a. ~C() then ~B() then ~A()
- b. ~B() then ~C() then ~A()
- c. ~A() then ~B() then ~C()
- d. ~C() then ~A() then ~B()
- e. ~B() then ~A() then ~C()

MCQ- 40 MARKS

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52
----	----

FEEDBACK

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Next page

The handwritten diagram illustrates the inheritance hierarchy: Class A is the base class at the bottom, Class B inherits from A in the middle, and Class C inherits from B at the top. Red annotations show a sequence of calls: first, a box encloses Class A with a red arrow pointing to it; second, another box encloses both Class A and Class B, with a red arrow pointing to Class B; finally, a large red box encloses both Class B and Class C, with a red arrow pointing to Class C.

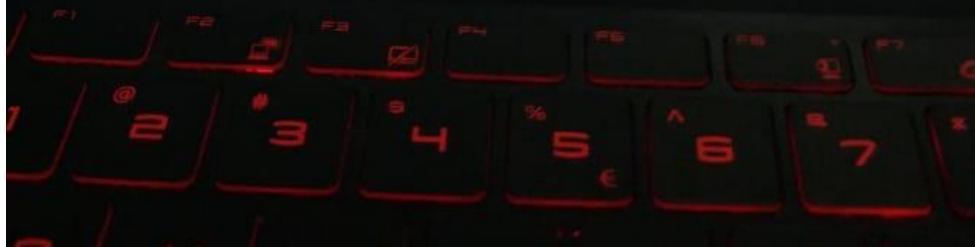
# Online Exams

Sri Lanka Institute of Information Technology

Which statement is TRUE about Composition relationship?

Select one:

- a. Objects of the two classes can know about each other, but they do not affect each other's lifetime. X
- b. The objects can exist independently. X
- c. Relationship where one class is an integral part of the other class.
- d. All of the above
- e. None of the above



# Online Exams

Sri Lanka Institute of Information Technology

Which statement is TRUE about the Aggregation?

Select one:

- a. The class manages the existence of the members.
- b. Implemented via pointers.
- c. Implemented only through normal member variables
- d. It's the strongest "part-of" relationship between classes X
- e. None of the above X

Moodle ← → × C | 0 | A I20120184.Mandawela.M.K.C.N.820120184

## Online Exams

Sri Lanka Institute of Information Technology

**Question 45**  
Not yet answered  
Marked out of 1.00  
 Flag question

There is a popular music app called Spotify. In this app there are playlists that contains a collection of songs categorized based on their genre. Some of the main categories include Rock, Popular, Classical. Under these categories you can find different playlists. "90's rock" is a playlist found under Rock, "Hip-pop" is another playlist under popular music category.

Based on the above scenario. If you are to convert the above application into objects and classes. Among the classes of "Song", "Genre", identify which of these classes are dependent classes and which of these classes are associated classes.

*Song → dependent  
genre → associated*

Next page

☰ Quiz navigation

MCQ - 40 MARKS

1	2	3	4	5	6	7	8
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17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY - 40 MARKS

51	52
----	----

FEEDBACK

53

Read the following description and write the coding of **5 classes** you have identified using a class diagram. You need not upload or / draw the class diagram here. You have to only write the coding of the classes showing the relationships clearly. You need not write all methods of the classes or the attributes. You may need to include the necessary methods and the attributes only to show the correct relationships between the classes. ( Do not use the TAB key while you type in the answer box as it may go to next Question ) - (20 marks)

A new Cable TV company called VTV is providing over 100 entertainment TV channels to customers. Any person can become a customer by registering with VTV. The customer has to provide customer details and the package ( channels he wishes to see ) during the registration. The customer is provided with a unique customer number. The customer details are stored in the customer table and the package details selected by the customer are stored in the subscription table. Once a month the VTV sends the customer a detailed bill. This is produced using the data stored in the Subscription Table, Customer Table, and Channel details Table. The customer can login to VTV's website and perform several online tasks. The customer can add new channels to the subscription he has. He can remove channels from his subscription. In both cases the Subscription Table should be updated. In addition the customer can provide a list of channels that he wants to get a detailed weekly TV schedule by email. These details are also stored in the Subscription Table. The customer can pay the monthly bills online using a credit card. He has to provide the credit card details and the amount to the system. The payment details are stored in the Payments Table. Every week VTV sends customers who have requested detailed TV schedules the details by email. TV schedules are stored in the Channel details Table.

☰ Quiz navigation

MCQ - 40 MARKS

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21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40

STRUCTURED - 20 MARKS

41	42	43	44	45
46	47	48	49	50

Online Exams  
Sri Lanka Institute of Information Technology

Question 15  
Not yet answered  
Marked out of 1.00  
 Flag question

What is correct about the "Vehicle" as shown on the diagram:

Select one:

a. It's an association class  
 b. It's a super class  
 c. It's a class  
 d. It's a derived class  
 e. It's an abstract class.

Next page

MCQ- 40 MARKS

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

STRUCTURED- 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY- 40 MARKS

51	52						
----	----	--	--	--	--	--	--

FEEDBACK

53

DELL

Question 18  
Not yet answered  
Marked out of 1.00  
 Flag question

What is the relationship shown in the above diagram?

Select one:

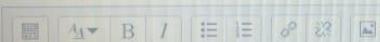
**Question 51**  
Not yet answered  
Marked out of 1.00  
 Flag question

Consider the given scenario and write 5 CRC cards. You can identify 5 classes and use the template of the CRC card (Table) and fill the details necessary. ( Do not use TAB key to move to columns in the table as it may lead to next question in the exam ) - (20 marks)

The Software system is supposed to manage information about Doctors. Doctors can be of two categories, namely General Practitioners and Specialists. So, that, you have decided to add three classes called Doctor, General Practitioner and Specialists to your application. A Doctor has a name, address, phone number and a registered number as properties. A general Practitioner has a name, address, phone number, registered number and hourly rate as properties. A Specialist has a name, address, phone number, registered number and doctor's charge per patient as properties.

At the end of every month, the system must calculate the total payments for each Doctor. General Practitioners are paid based on the number of visiting hours during the month and Specialists are paid based on the number of patients consulted during a month.

Total payment for General Practitioner is equal to the multiplication between hourly rate and the number of visiting hours during the month. Total payment for a Specialist is equal to the multiplication between doctor charge and the number of patients consulted during the month. You may take the number of patients consulted as parameter.



class name \_\_\_\_\_  
Responsibilities Collaborations

≡ Quiz n

MCQ - 40 M

1	2
8	9
15	16
22	23
29	30
36	37
41	42
48	49

STRUCTURED

## Online Exams

Sri Lanka Institute of Information Technology

Select the correct diagram to show the relationship of class A and class B, where all properties of class A are **inherited** to class B.

Select one:

- a. 
- b. 
- c. 
- d. 
- e. None of the Above



**Online Exams**  
Sri Lanka Institute of Information Technology

Question 13  
Not yet answered  
Marked out of 1.00  
Flag question

Select the correct coding for the given below relationship.

Relationship diagram:

```
graph LR; Student[Student] -- "0..1" --> Enroll[Enroll]; Enroll -- "1..*1..*" --> Subject[Subject]
```

Select one:

a. #define SIZE 10  
class Student {  
private:  
<attributes>  
Subject s;  
  
public:  
<methods>  
};  
class Subject {  
private:  
<attributes>  
public:  
<methods>  
};

b. #define SIZE 10  
class Student {  
private:  
<attributes>  
Subject \*sub[SIZE];

**DELL**

MINIMIZE X C | ① | ↻

Online Exams  
Sri Lanka Institute of Information Technology

Question 44  
Not yet answered  
Marked out of 1.00  
Flag question

"ikman.lk" is a popular website for retailers and property owners. In this website you can create your profile as a seller or a buyer. However, if you are a seller, you need to create advertisements for your goods/properties based on the category it belongs to. It can be a house, a vehicle, a mobile phone that can belong to the categories of "Properties", "Automobiles" and "Electronic items" respectively.

Based on the above scenario, If you are to convert the above application into objects and classes. Identify the relationship between "Mobile phone" and "Electronic Items" classes

Answer: Inheritance

Next page

**DELL**

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 47  
Not yet answered  
Marked out of 1.00  
Flag question

Write a simple C++ program with two classes to demonstrate the inheritance between "Employee" and "Parttime Employee"

```
Class Employee{  
    Protected:  
        <attribute>;  
    Public:  
        <method>;  
};  
  
Class ParttimeEmployee: public Employee{  
    Private:  
        <attribute>;  
    Public:  
        <method>;  
};
```

MCQ-40 MARKS

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
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STRUCTURED - 20 MARKS

41	42	43	44	45	46	47	48
49	50						

ESSAY-40 MARKS

51	52
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FEEDBACK

53

Finish attempt...  
Time left 0:21:15

Sri Lanka Institute of Information Technology

Consider the given scenario and write 5 CRC cards. You can identify 5 classes and use the template of the CRC card (Table) and fill the details necessary. ( Do not use TAB key to move to columns in the table as it may lead to next question in the exam ) - (20 marks)

"ABC" Television Corporation is a leading television channel in Sri Lanka. The management has decided to automate the activities of their advertising department. Advertising department mainly focus on advertisement scheduling. You have been hired as a system analyst to identify the requirements and to make an initial sketch of the proposed system.

The staff of the advertising department consists with a manager, an assistant manager, a secretary and several designers. Before taking advertisements, ABC Television Corporation signs a contract with the client.

When a new advertisement is received from a client or a client company, the secretary will log in to the system and check the terms of the client contract by client number. Then the details of the advertisement (This may include the length of the advertisement, time belt, payment, client name, client email etc) are entered to the system. Since a new advertisement is available, secretary has to regenerate the advertisement schedule for the rest of the day. This schedule can be then printed and given to the telecasting unit. If the client contract is changed due to any circumstance, the relevant advertisement schedule is updating accordingly. This is again done by the secretary.

An assistant manager can log in to the system and can view the advertisements added on a given date. For any reason, if the initially assigned time belt for a particular advertisement should be changed, that can only be done by an assistant manager or a manager.

At the end of each week, the assistant manager can generate the weekly scheduling status report. It visualizes the status of the advertisement in the previous week. Frequently reports can be generated per each advertisement, to view the telecasting frequency of a particular advertisement. The client report can be generated at any time to get the details of clients; profit gained by each clients and the client payments. All the reports can be generated either by assistant manager or manager.

Clients can pay for advertisements directly through credit cards. The system is linked with existing accounting module to handle the payment details. An email will be sent to the client for confirmation of payment. This will again handle by the accounting module.

Class Name

MCQ-40 MARKS

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
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STRUCTURED - 20 MARKS

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ESSAY-40 MARKS

51	52
----	----

FEEDBACK

53

Finish attempt...  
Time left 0:21:15

# Online Exams

Sri Lanka Institute of Information Technology

Which of the following concepts indicates the capability of using object of one class inside another class?

Select one or more:

- a. Abstraction
- b. Composition
- c. Inheritance
- d. Encapsulation
- e. Association



48  
answered  
out of  
question

There is a popular music app called Spotify. In this app there are playlists categorized based on their genre. Some of the main categories include Rock, Popular, Classical. Under these categories you can find different playlists. "90's rock" is a playlist found under Rock. "Hip-pop" is another playlist under popular music category.

Based on the above scenario. If you are to convert the above application into objects and classes. Identify the relationship between the classes of "Popular", "Hip-pop"?

Answer: Inheritance

### Quiz navigation

#### MCQ- 40 MARKS

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#### STRUCTURED - 20 MARKS

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#### ESSAY- 40 MARKS

51	52
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#### FEEDBACK

53
----

Next page

Moodle

Report Chapter Chapter Header Chapter Footer

a. Report Chapter Chapter Header Chapter Footer

b. Report Chapter Chapter Header Chapter Footer

c. Report Chapter Chapter Header Chapter Footer

d. Report Chapter Chapter Header Chapter Footer

e. None of the above

17 18 19 20 21 22 23 24

25 26 27 28 29 30 31 32

33 34 35 36 37 38 39 40

STRUCTURED - 20 MARKS

41 42 43 44 45 46 47 48

49 50

ESSAY- 40 MARKS

51 52

FEEDBACK

53

Finish attempt — Time left 0:53:55

Next page

```
classDiagram
    class Report
    class Chapter
    class ChapterHeader
    class ChapterFooter

    Report "1..*" --> "1" Chapter
    Chapter "1" --> "1" ChapterHeader
    Chapter "1" --> "1" ChapterFooter
```

The diagram shows five options (a, b, c, d, e) for a UML class diagram. Each option includes a 'Report' class, a 'Chapter' class, and two association classes: 'Chapter Header' and 'Chapter Footer'. In all options, 'Report' has a multiplicity of '1..\*' at its end of the association with 'Chapter'. 'Chapter' has a multiplicity of '1' at its end of the association with both 'Chapter Header' and 'Chapter Footer'. In options a, b, and c, 'Chapter Header' and 'Chapter Footer' are connected by a binary association with multiplicity '1' on each side. In option d, 'Chapter Header' and 'Chapter Footer' are connected by a binary association with multiplicity '1' on the 'Chapter' side and '1..\*' on the 'Chapter Footer' side. Option e is labeled 'None of the above'.

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 49  
yet answered  
Marked out of  
0.00  
Flag question

Dream Motors is a company which imports and sells Brand-New and Re-conditioned motor vehicles. Identify class/classes from the given scenario.

Company, Motor Vehicles

Next page

MCQ-40 MARKS

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STRUCTURED - 20 MARKS

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49	50						

ESSAY- 40 MARKS

51	52
----	----

FEEDBACK

53

Sri Lanka Institute of Information Technology

Question 17  
yet answered  
Marked out of  
0.00  
Flag question

Members which are intended to be inherited are declared as \_\_\_\_\_

Select one or more:

- a. private
- b. public
- c. protected
- d. pure virtual
- e. virtual

Next page

Online Exams

Sri Lanka Institute of Information Technology

There is a popular music app called Spotify. In this app there are playlists that contains a collection of songs categorized based on their genre. Some of the main categories include Rock, Popular, Classical. Under these categories you can find different playlists. "90's rock" is a playlist found under Rock, "Hip-pop" is another playlist under popular music category.

Based on the above scenario. If you are to convert the above application into objects and classes. Define the multiplicity between classes of "Playlist", "Song".

Answer: Association

Next page

MCQ- 40 MARKS

1	2	3	4	5	6
9	10	11	12	13	14
17	18	19	20	21	22
25	26	27	28	29	30
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STRUCTURED - 20 MARKS

41	42	43	44	45	46
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ESSAY- 40 MARKS

51	52
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FEEDBACK

Moodle

Online Exams

Sri Lanka Institute of Information Technology

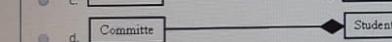
Question 40  
Not yet answered  
Marked out of 1.00  
Flag question

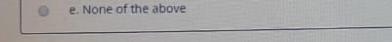
Select the most correct diagram to show the relationship of Committee class and Student class.

Select one:

a. 

b. 

c. 

d. 

e. None of the above

Next page

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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ESSAY- 40 MARKS

51	52
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FEEDBACK

A system is designed to assign topics for assignment groups. Each group consist of 4 or 5 group members. Developers of the system have identified Topic class, Group class and GroupMember class as the classes in this system. Select the most correct relationship for Group class and GroupMember class.

Select one:

- a. Composition
- b. Inheritance
- c. Dependency
- d. Association
- e. Aggregation

Quiz navig

MCQ: 40 MARKS

1 2 3

8 9 10

15 16

22 23

29 30

36 37

41

Next page

Question 14

Not yet answered

Marked out of  
1.00

Flag question

What is true about overloading and overriding among the following?

Select one:

- a. Overloading happens within the same class. ✓
- b. Overriding can occur without inheritance. ✗
- c. The function signature should be changed in overriding. ✗
- d. All of the above ✗
- e. None of the Above ✗

Online Exams

Sri Lanka Institute of Information Technology

42 answered out of 50 question

```
void assignDetails();
void assignDetails(int empNo);
void assignDetails(int empNo, float salary, int age);
```

Above mentioned method prototypes are included in **Employee** class implementation. After implementing Employee class, these methods are invoked(called) in the main program using **emp** static object.

Write down three function calling statements that needs to be written in main program to invoke these methods.

Hint: You can pass suitable values to these methods.

emp.assignDetails();  
emp.assignDetails(r);

Quiz navigation

MCQ- 40 MARKS

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STRUCTURED - 20 MARKS

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49	50						

ESSAY- 40 MARKS

51	52						
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FEEDBACK

53

Question 16

Not yet answered

Marked out of 1.00

Flag question

```
Shape
+-- getArea()
 |
+-- Rectangle
    +-- length
    +-- width
    +-- Rectangle()
    +-- Rectangle(int, int)
    +-- getArea()
```

What is the best way to implement "getArea()" method in the Shape class?

Select one:

- a. As a virtual method
- b. As a pure virtual method
- c. As an overloaded method
- d. As a getter
- e. None of the above

Quiz navigation

MCQ- 40 MARKS

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15	16	17	18	19	20	21
22	23	24	25	26	27	28
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STRUCTURED - 20 MARKS

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48	49	50				

ESSAY- 40 MARKS

51	52						
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FEEDBACK

53

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 39

Not yet answered  
Marked out of 1.00  
Flag question

What is the false statement among following?

Select one:

- a. Function overloading means define multiple functions with the same name inside the same class. ✓
- b. Overloaded function must differ in their order and types of arguments. ✗
- c. Overloaded functions should be preceded with virtual keyword
- d. No statement is false
- e. All statements are false

Next page

Quiz navigation

MQO- 40 MARKS

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25	26	27	28	29	30	31	32
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STRUCTURED - 20 MARKS

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49	50						

ESSAY- 40 MARKS

51	52
----	----

FEEDBACK

Question 40

Not yet answered  
Marked out of 1.00  
Flag question

Which of the following statement is true about the diagram given below?

Select one:

- a.  
X is a part of Y. ✗
- b.  
If an instance of X is deleted, all the contained instances of Y are also deleted. ✓
- c.  
If an instance of Y is deleted, all the contained instances of X are also deleted.
- d.  
If an instance of X is deleted, the contained instances of Y are not affected.
- e. None of the above is true.

Next page

Select one:

- a. It is base class it is derived class
- b. It is base class It is derived class
- c. It is derived class  
It is base class
- d. It is derived class it is base class
- e. Error in code

### Sri Lanka Institute of Information Technology

If same message is passed to objects of several different classes and all those can respond in different way, what is this feature called?

Select one:

- a. Inheritance
- b. Overriding
- c. Overloading
- d. Polymorphism
- e. Encapsulation

Next page

MCQ-40 MAR	
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3	4
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33	34
35	36
37	38
39	40

**SLIT**

## Online Exams

Sri Lanka Institute of Information Technology

Question 45  
Not yet answered  
Marked out of 1.00  
Flag question

Customers can pay for a purchase using different types of payment methods. A payment clerk enters the payment details into the system. Identify the class/classes from the above statements.

A  B  C  D  E

Customer  
payment  
payment clerk

**SLIT**

## Online Exams

Sri Lanka Institute of Information Technology

Question 31  
Not yet answered  
Marked out of 1.00  
Flag question

Select the correct statement/statements.

Select one or more:

a.  
Association may also correspond to the relation between instances between three or more classes.

b.  
Association labels may be labeled by showing the association name or be unlabeled.

c.  
The multiplicity at the target class end of an association is the number of instances that can be associated with a single instance of source class.

d.  
Only A and B

e. Only A and C

Quiz navigation

MCQ - 40 MARKS
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Marked out of 1.00

What is the statement about the following figure given below.

```

classDiagram
    class X {
        <<3>>
        <<1>>
    }
    class A
    X "3" --> A
    X "1" --> A
    X <|-- Y
    X <|-- Z
  
```

Select one:

- a. One object of Z must be associated with exactly with 3 objects of A.
- b. Three objects of A are associated with multiple objects of X.
- c. There are no direct instances of X.
- d. One objects of A must be associated with multiple objects of Y.
- e. Three objects of X are associated with multiple objects of A.

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Question 22  
Not yet answered  
Marked out of 1.00

What is the output of the following program?

```

class person
{
public :
int marks;
void disp()
{
    cout<<"It is base class";
}
};

class employee:public person
{
public :
void disp()
{
    cout<<"It is derived class";
}
};

int main()
{
    person p;
    employee e;
    p.disp();
    e.disp();
}
  
```

Select one:

- a. It is base class it is derived class
- b. It is derived class it is base class

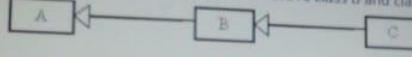
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**Question 37**  
Not yet answered  
Marked out of 1.00  
 Flag question

Select the incorrect statement for class A, class B and class C given below.



Select one:

- a. Specialization takes place from class B to class A. X
- b. Generalization takes place from class C to class B. ✓
- c. Specialization takes place from class A to class C. X
- d. Generalization takes place from class B to class A. X
- e. None of the Above X

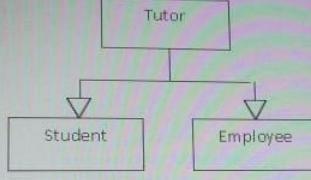
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**Question 40**  
Not yet answered  
Marked out of 1.00  
 Flag question



What is correct about the above diagram ?

Select one:

- a. Tutor is the super class of Student and Employee. X
- b. Student and Employee classes are derived from Tutor. X
- c. Student and Employee classes have common properties. X
- d. Tutor is a Student as well as an Employee. X
- e. None of the above X

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**Question 34**  
Not yet answered  
Marked out of 1.00  
 Flag question

Which kind of relationship is represented by Association?

Select one:

- a. Is-A relationship
- b. Part-of relationship
- c. Has-A relationship
- d. Is A Kind of a Relationship
- e. None of the above

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**Question 44**  
Not yet answered  
Marked out of 1.00  
 Flag question

"ikman.lk" is a popular website for retailers and property owners. In this website you can create your profile as a seller or buyer. However, if you are a seller, you need to create advertisements for your goods/properties based on the category it belongs to. It can be a house, a vehicle, a mobile phone that can belong to the categories of "Properties", "Automobiles" and "Electronic items" respectively.

Based on the above scenario. If you are to convert the above application into objects and classes. Identify the multiplicity between "Seller" and "Buyer" classes.

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ESSAY - 40 MARKS		
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**Question 41**  
Not yet answered  
Marked out of 1.00  
[Flag question](#)

Implement the main method to get the given output.

**PROGRAM:**

```
#include <iostream>
using namespace std;

class Parent
{
public:
    int id_p;
};

class Child : public Parent
{
public:
    int id_c;
};

int main()
{
```

**OUTPUT:**

[REDACTED]

**Quiz navigation**

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**Question 39**  
Not yet answered  
Marked out of 0.00  
[Flag question](#)

Which of the following statement is TRUE about composition?

Select one:

- a. Compositions are typically implemented via normal member variables, or by pointers where the class manages all the memory allocation and de-allocation.
- b. Exists when a member of a class has a part-of relationship with the class.
- c. The class manages the existence of the members.
- d. All of the above
- e. None of the above

[Next Question](#)

Which of the following term is best defined by the following statement?  
"A structural relationship that specifies that objects of one thing are connected to objects of others"

Select one:

- a. Aggregation
- b. Association
- c. Inheritance
- d. Dependency
- e. None of the above

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MCQ 40 MARKS

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Question 28

yet answered  
marked out of 1

Flag question

Which of the following term is best defined by the following statement?

"A structural relationship that specifies that objects of one thing are connected to objects of others"

Select one:

- a. Aggregation
- b. Association
- c. Inheritance
- d. Dependency
- e. None of the above

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MCQ 40 MA

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**SMIT**

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Customers can pay for a purchase using different types of payment methods. A payment clerk enters the payment details into the system. Identify the class/classes from the above statements.

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Pur. fuz*

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MCG-40 MARCH

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**Question 36**  
Not yet answered  
Marked out of 1.00  
 Flag question

The CRC method will be used to

I. Identify classes ✓  
II. Identify the responsibilities of the classes ✓  
III. Identify collaborators of each class ✓  
IV. Developing use case diagrams

*X*

Correct statement/s is/are,

Select one or more:

a. I and II  
 b. I, II and III  
 c. II and III  
 d. I, II, III and IV  
 e. None of the above

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MCG-40 MARCH

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Question 32

Not yet answered

Marked out of

1.00

Flag question

What is the correct type of relationships are represented by the symbols in the figure given below?



A.	Composition	Aggregation
B.	Aggregation	Composition
C.	Inheritance	Aggregation
D.	Association	Inheritance

Select one:

- a. A
- b. B
- c. C
- d. D
- e. All are wrong.

### Quiz navigation

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STRUCTURE-20 MARKS

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48	49	50				

Question 26

Not yet answered

Marked out of

1.00

Flag question

Select the correct UML notation for the class given in C++ code below.

```
class Patient {  
private:  
    int id;  
    int age;  
public:  
    void setDetails(int a, int i);  
    int getAge();  
    int getId();  
};
```

Select one:

Patient	<input type="radio"/>
- id : int	
- age : int	
+ setDetails (a : int; i : int) : void	
+ getAge() : int	
+ getId() : int	

a.	Patient	<input type="radio"/>
- int : id		Patient
- int : age		<input type="radio"/>
+ setDetails (int : a, int : i) : void		
+ getAge() : int		
+ getId() : int		

b.	Patient	<input type="radio"/>
- id : int		Patient
- age : int		<input type="radio"/>
+ setId : setDetails (a : int, i : int)		
+ getId() : int		
+ int : getAge()		
+ int : getId()		

Patient	<input type="radio"/>
- int : id	
- int : age	

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STRUCTURE-20 MARKS

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ESSAY-40 MARKS

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53						

FEEDBACK



## Question 35

Not yet answered

Marked out of  
1.00

Flag question

Which of the following term is best defined by the following statement?

"A process in which one object acquires all the properties and behaviors of its parent object automatically"

Select one:

- a. Generalization
- b. Association
- c. Dependency
- d. Aggregation
- e. Composition

## Quiz navigation

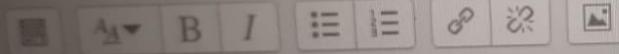
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## OUTPUT:

```
> ./main
Child id is 7
Parent id is 91
?
```



```
cout<<"\nChild id is"<<id_c<<endl;
cout<<"\nParent id is"<<id_p<<endl;
```

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**Question 33**  
Not yet answered  
Marked out of 1.00  
 Flag question

Which public method cannot be inherited to the child class from parent class?

Select one:

- a. Constructor
- b. Destructor
- c. overloaded methods
- d. Both (a) and (b)
- e. None of the above

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MCQ-40 MARKS

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STRUCTURED-20 MARKS

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**Question 38**  
Not yet answered  
Marked out of 1.00  
 Flag question

Which of the following relationships indicates that objects of specific class can occur independently?

Select one or more:

- a. Aggregation
- b. Association
- c. Composition
- d. Dependency
- e. Inheritance

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MCQ-40 MARKS

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STRUCTURED-20 MARKS

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According to the diagram shown below, what is the relationship between "Person" and "Vehicle"?

Select one:

- a. Aggregation
- b. Two way Association
- c. One way Association
- d. Dependency
- e. Composition

Quiz navigation

MCQ-1	MCQ-2	MCQ-3	MCQ-4	MCQ-5	MCQ-6	MCQ-7	MCQ-8	MCQ-9	MCQ-10	MCQ-11	MCQ-12	MCQ-13	MCQ-14	MCQ-15	MCQ-16	MCQ-17	MCQ-18	MCQ-19	MCQ-20	MCQ-21	MCQ-22	MCQ-23	MCQ-24	MCQ-25	MCQ-26	MCQ-27	MCQ-28	MCQ-29	MCQ-30	MCQ-31	MCQ-32	MCQ-33	MCQ-34	MCQ-35	MCQ-36	MCQ-37	MCQ-38	MCQ-39	MCQ-40	MCQ-41	MCQ-42	MCQ-43	MCQ-44	MCQ-45	MCQ-46	MCQ-47	MCQ-48	MCQ-49	MCQ-50	MCQ-51	MCQ-52	MCQ-53	MCQ-54	MCQ-55	MCQ-56	MCQ-57	MCQ-58	MCQ-59	MCQ-60	MCQ-61	MCQ-62	MCQ-63	MCQ-64	MCQ-65	MCQ-66	MCQ-67	MCQ-68	MCQ-69	MCQ-70	MCQ-71	MCQ-72	MCQ-73	MCQ-74	MCQ-75	MCQ-76	MCQ-77	MCQ-78	MCQ-79	MCQ-80	MCQ-81	MCQ-82	MCQ-83	MCQ-84	MCQ-85	MCQ-86	MCQ-87	MCQ-88	MCQ-89	MCQ-90	MCQ-91	MCQ-92	MCQ-93	MCQ-94	MCQ-95	MCQ-96	MCQ-97	MCQ-98	MCQ-99	MCQ-100	MCQ-101	MCQ-102	MCQ-103	MCQ-104	MCQ-105	MCQ-106	MCQ-107	MCQ-108	MCQ-109	MCQ-110	MCQ-111	MCQ-112	MCQ-113	MCQ-114	MCQ-115	MCQ-116	MCQ-117	MCQ-118	MCQ-119	MCQ-120	MCQ-121	MCQ-122	MCQ-123	MCQ-124	MCQ-125	MCQ-126	MCQ-127	MCQ-128	MCQ-129	MCQ-130	MCQ-131	MCQ-132	MCQ-133	MCQ-134	MCQ-135	MCQ-136	MCQ-137	MCQ-138	MCQ-139	MCQ-140	MCQ-141	MCQ-142	MCQ-143	MCQ-144	MCQ-145	MCQ-146	MCQ-147	MCQ-148	MCQ-149	MCQ-150	MCQ-151	MCQ-152	MCQ-153	MCQ-154	MCQ-155	MCQ-156	MCQ-157	MCQ-158	MCQ-159	MCQ-160	MCQ-161	MCQ-162	MCQ-163	MCQ-164	MCQ-165	MCQ-166	MCQ-167	MCQ-168	MCQ-169	MCQ-170	MCQ-171	MCQ-172	MCQ-173	MCQ-174	MCQ-175	MCQ-176	MCQ-177	MCQ-178	MCQ-179	MCQ-180	MCQ-181	MCQ-182	MCQ-183	MCQ-184	MCQ-185	MCQ-186	MCQ-187	MCQ-188	MCQ-189	MCQ-190	MCQ-191	MCQ-192	MCQ-193	MCQ-194	MCQ-195	MCQ-196	MCQ-197	MCQ-198	MCQ-199	MCQ-200	MCQ-201	MCQ-202	MCQ-203	MCQ-204	MCQ-205	MCQ-206	MCQ-207	MCQ-208	MCQ-209	MCQ-210	MCQ-211	MCQ-212	MCQ-213	MCQ-214	MCQ-215	MCQ-216	MCQ-217	MCQ-218	MCQ-219	MCQ-220	MCQ-221	MCQ-222	MCQ-223	MCQ-224	MCQ-225	MCQ-226	MCQ-227	MCQ-228	MCQ-229	MCQ-230	MCQ-231	MCQ-232	MCQ-233	MCQ-234	MCQ-235	MCQ-236	MCQ-237	MCQ-238	MCQ-239	MCQ-240	MCQ-241	MCQ-242	MCQ-243	MCQ-244	MCQ-245	MCQ-246	MCQ-247	MCQ-248	MCQ-249	MCQ-250	MCQ-251	MCQ-252	MCQ-253	MCQ-254	MCQ-255	MCQ-256	MCQ-257	MCQ-258	MCQ-259	MCQ-260	MCQ-261	MCQ-262	MCQ-263	MCQ-264	MCQ-265	MCQ-266	MCQ-267	MCQ-268	MCQ-269	MCQ-270	MCQ-271	MCQ-272	MCQ-273	MCQ-274	MCQ-275	MCQ-276	MCQ-277	MCQ-278	MCQ-279	MCQ-280	MCQ-281	MCQ-282	MCQ-283	MCQ-284	MCQ-285	MCQ-286	MCQ-287	MCQ-288	MCQ-289	MCQ-290	MCQ-291	MCQ-292	MCQ-293	MCQ-294	MCQ-295	MCQ-296	MCQ-297	MCQ-298	MCQ-299	MCQ-300	MCQ-301	MCQ-302	MCQ-303	MCQ-304	MCQ-305	MCQ-306	MCQ-307	MCQ-308	MCQ-309	MCQ-310	MCQ-311	MCQ-312	MCQ-313	MCQ-314	MCQ-315	MCQ-316	MCQ-317	MCQ-318	MCQ-319	MCQ-320	MCQ-321	MCQ-322	MCQ-323	MCQ-324	MCQ-325	MCQ-326	MCQ-327	MCQ-328	MCQ-329	MCQ-330	MCQ-331	MCQ-332	MCQ-333	MCQ-334	MCQ-335	MCQ-336	MCQ-337	MCQ-338	MCQ-339	MCQ-340	MCQ-341	MCQ-342	MCQ-343	MCQ-344	MCQ-345	MCQ-346	MCQ-347	MCQ-348	MCQ-349	MCQ-350	MCQ-351	MCQ-352	MCQ-353	MCQ-354	MCQ-355	MCQ-356	MCQ-357	MCQ-358	MCQ-359	MCQ-360	MCQ-361	MCQ-362	MCQ-363	MCQ-364	MCQ-365	MCQ-366	MCQ-367	MCQ-368	MCQ-369	MCQ-370	MCQ-371	MCQ-372	MCQ-373	MCQ-374	MCQ-375	MCQ-376	MCQ-377	MCQ-378	MCQ-379	MCQ-380	MCQ-381	MCQ-382	MCQ-383	MCQ-384	MCQ-385	MCQ-386	MCQ-387	MCQ-388	MCQ-389	MCQ-390	MCQ-391	MCQ-392	MCQ-393	MCQ-394	MCQ-395	MCQ-396	MCQ-397	MCQ-398	MCQ-399	MCQ-400	MCQ-401	MCQ-402	MCQ-403	MCQ-404	MCQ-405	MCQ-406	MCQ-407	MCQ-408	MCQ-409	MCQ-410	MCQ-411	MCQ-412	MCQ-413	MCQ-414	MCQ-415	MCQ-416	MCQ-417	MCQ-418	MCQ-419	MCQ-420	MCQ-421	MCQ-422	MCQ-423	MCQ-424	MCQ-425	MCQ-426	MCQ-427	MCQ-428	MCQ-429	MCQ-430	MCQ-431	MCQ-432	MCQ-433	MCQ-434	MCQ-435	MCQ-436	MCQ-437	MCQ-438	MCQ-439	MCQ-440	MCQ-441	MCQ-442	MCQ-443	MCQ-444	MCQ-445	MCQ-446	MCQ-447	MCQ-448	MCQ-449	MCQ-450	MCQ-451	MCQ-452	MCQ-453	MCQ-454	MCQ-455	MCQ-456	MCQ-457	MCQ-458	MCQ-459	MCQ-460	MCQ-461	MCQ-462	MCQ-463	MCQ-464	MCQ-465	MCQ-466	MCQ-467	MCQ-468	MCQ-469	MCQ-470	MCQ-471	MCQ-472	MCQ-473	MCQ-474	MCQ-475	MCQ-476	MCQ-477	MCQ-478	MCQ-479	MCQ-480	MCQ-481	MCQ-482	MCQ-483	MCQ-484	MCQ-485	MCQ-486	MCQ-487	MCQ-488	MCQ-489	MCQ-490	MCQ-491	MCQ-492	MCQ-493	MCQ-494	MCQ-495	MCQ-496	MCQ-497	MCQ-498	MCQ-499	MCQ-500	MCQ-501	MCQ-502	MCQ-503	MCQ-504	MCQ-505	MCQ-506	MCQ-507	MCQ-508	MCQ-509	MCQ-510	MCQ-511	MCQ-512	MCQ-513	MCQ-514	MCQ-515	MCQ-516	MCQ-517	MCQ-518	MCQ-519	MCQ-520	MCQ-521	MCQ-522	MCQ-523	MCQ-524	MCQ-525	MCQ-526	MCQ-527	MCQ-528	MCQ-529	MCQ-530	MCQ-531	MCQ-532	MCQ-533	MCQ-534	MCQ-535	MCQ-536	MCQ-537	MCQ-538	MCQ-539	MCQ-540	MCQ-541	MCQ-542	MCQ-543	MCQ-544	MCQ-545	MCQ-546	MCQ-547	MCQ-548	MCQ-549	MCQ-550	MCQ-551	MCQ-552	MCQ-553	MCQ-554	MCQ-555	MCQ-556	MCQ-557	MCQ-558	MCQ-559	MCQ-560	MCQ-561	MCQ-562	MCQ-563	MCQ-564	MCQ-565	MCQ-566	MCQ-567	MCQ-568	MCQ-569	MCQ-570	MCQ-571	MCQ-572	MCQ-573	MCQ-574	MCQ-575	MCQ-576	MCQ-577	MCQ-578	MCQ-579	MCQ-580	MCQ-581	MCQ-582	MCQ-583	MCQ-584	MCQ-585	MCQ-586	MCQ-587	MCQ-588	MCQ-589	MCQ-590	MCQ-591	MCQ-592	MCQ-593	MCQ-594	MCQ-595	MCQ-596	MCQ-597	MCQ-598	MCQ-599	MCQ-600	MCQ-601	MCQ-602	MCQ-603	MCQ-604	MCQ-605	MCQ-606	MCQ-607	MCQ-608	MCQ-609	MCQ-610	MCQ-611	MCQ-612	MCQ-613	MCQ-614	MCQ-615	MCQ-616	MCQ-617	MCQ-618	MCQ-619	MCQ-620	MCQ-621	MCQ-622	MCQ-623	MCQ-624	MCQ-625	MCQ-626	MCQ-627	MCQ-628	MCQ-629	MCQ-630	MCQ-631	MCQ-632	MCQ-633	MCQ-634	MCQ-635	MCQ-636	MCQ-637	MCQ-638	MCQ-639	MCQ-640	MCQ-641	MCQ-642	MCQ-643	MCQ-644	MCQ-645	MCQ-646	MCQ-647	MCQ-648	MCQ-649	MCQ-650	MCQ-651	MCQ-652	MCQ-653	MCQ-654	MCQ-655	MCQ-656	MCQ-657	MCQ-658	MCQ-659	MCQ-660	MCQ-661	MCQ-662	MCQ-663	MCQ-664	MCQ-665	MCQ-666	MCQ-667	MCQ-668	MCQ-669	MCQ-670	MCQ-671	MCQ-672	MCQ-673	MCQ-674	MCQ-675	MCQ-676	MCQ-677	MCQ-678	MCQ-679	MCQ-680	MCQ-681	MCQ-682	MCQ-683	MCQ-684	MCQ-685	MCQ-686	MCQ-687	MCQ-688	MCQ-689	MCQ-690	MCQ-691	MCQ-692	MCQ-693	MCQ-694	MCQ-695	MCQ-696	MCQ-697	MCQ-698	MCQ-699	MCQ-700	MCQ-701	MCQ-702	MCQ-703	MCQ-704	MCQ-705	MCQ-706	MCQ-707	MCQ-708	MCQ-709	MCQ-710	MCQ-711	MCQ-712	MCQ-713	MCQ-714	MCQ-715	MCQ-716	MCQ-717	MCQ-718	MCQ-719	MCQ-720	MCQ-721	MCQ-722	MCQ-723	MCQ-724	MCQ-725	MCQ-726	MCQ-727	MCQ-728	MCQ-729	MCQ-730	MCQ-731	MCQ-732	MCQ-733	MCQ-734	MCQ-735	MCQ-736	MCQ-737	MCQ-738	MCQ-739	MCQ-740	MCQ-741	MCQ-742	MCQ-743	MCQ-744	MCQ-745	MCQ-746	MCQ-747	MCQ-748	MCQ-749	MCQ-750	MCQ-751	MCQ-752	MCQ-753	MCQ-754	MCQ-755	MCQ-756	MCQ-757	MCQ-758	MCQ-759	MCQ-760	MCQ-761	MCQ-762	MCQ-763	MCQ-764	MCQ-765	MCQ-766	MCQ-767	MCQ-768	MCQ-769	MCQ-770	MCQ-771	MCQ-772	MCQ-773	MCQ-774	MCQ-775	MCQ-776	MCQ-777	MCQ-778	MCQ-779	MCQ-780	MCQ-781	MCQ-782	MCQ-783	MCQ-784	MCQ-785	MCQ-786	MCQ-787	MCQ-788	MCQ-789	MCQ-790	MCQ-791	MCQ-792	MCQ-793	MCQ-794	MCQ-795	MCQ-796	MCQ-797	MCQ-798	MCQ-799	MCQ-800	MCQ-801	MCQ-802	MCQ-803	MCQ-804	MCQ-805	MCQ-806	MCQ-807	MCQ-808	MCQ-809	MCQ-810	MCQ-811	MCQ-812	MCQ-813	MCQ-814	MCQ-815	MCQ-816	MCQ-817	MCQ-818	MCQ-819	MCQ-820	MCQ-821	MCQ-822	MCQ-823	MCQ-824	MCQ-825	MCQ-826	MCQ-827	MCQ-828	MCQ-829	MCQ-830	MCQ-831	MCQ-832	MCQ-833	MCQ-834	MCQ-835	MCQ-836	MCQ-837	MCQ-838	MCQ-839	MCQ-840	MCQ-841	MCQ-842	MCQ-843	MCQ-844	MCQ-845	MCQ-846	MCQ-847	MCQ-848	MCQ-849	MCQ-850	MCQ-851	MCQ-852	MCQ-853	MCQ-854	MCQ-855	MCQ-856	MCQ-857	MCQ-858	MCQ-859	MCQ-860	MCQ-861	MCQ-862	MCQ-863	MCQ-864	MCQ-865	MCQ-866	MCQ-867	MCQ-868	MCQ-869	MCQ-870	MCQ-871	MCQ-872	MCQ-873	MCQ-874	MCQ-875	MCQ-876	MCQ-877	MCQ-878	MCQ-879	MCQ-880	MCQ-881	MCQ-882	MCQ-883	MCQ-884	MCQ-885	MCQ-886	MCQ-887	MCQ-888	MCQ-889	MCQ-890	MCQ-891	MCQ-892	MCQ-893	MCQ-894	MCQ-895	MCQ-896	MCQ-897	MCQ-898	MCQ-899	MCQ-900	MCQ-901	MCQ-902	MCQ-903	MCQ-904	MCQ-905	MCQ-906	MCQ-907	MCQ-908	MCQ-909	MCQ-910	MCQ-911	MCQ-912	MCQ-913	MCQ-914	MCQ-915	MCQ-916	MCQ-917	MCQ-918	MCQ-919	MCQ-920	MCQ-921	MCQ-922	MCQ-923	MCQ-924	MCQ-925	MCQ-926	MCQ-927	MCQ-928	MCQ-929	MCQ-930	MCQ-931	MCQ-932	MCQ-933	MCQ-934	MCQ-935	MCQ-936	MCQ-937	MCQ-938	MCQ-939	MCQ-940	MCQ-941	MCQ-942	MCQ-943	MCQ-944	MCQ-945	MCQ-946	MCQ-947	MCQ-948	MCQ-949	MCQ-950	MCQ-951	MCQ-952	MCQ-953	MCQ-954	MCQ-955	MCQ-956	MCQ-957	MCQ-958	MCQ-959	MCQ-960	MCQ-961	MCQ-962	MCQ-963	MCQ-964	MCQ-965	MCQ-966	MCQ-967	MCQ-968	MCQ-969	MCQ-970	MCQ-971	MCQ-972	MCQ-973	MCQ-974	MCQ-975	MCQ-976	MCQ-977	MCQ-978	MCQ-979	MCQ-980	MCQ-981	MCQ-982	MCQ-983	MCQ-984	MCQ-985	MCQ-986	MCQ-987	MCQ-988	MCQ-989	MCQ-990	MCQ-991	MCQ-992	MCQ-993	MCQ-994	MCQ-995	MCQ-996	MCQ-997	MCQ-998	MCQ-999	MCQ-1000
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Question 35  
Not yet answered  
Marked out of 1.00  
Flag question

Which of the following term is best defined by the following statement?  
"A process in which one object acquires all the properties and behaviors of its parent object automatically"

Select one:

- a. Generalization
- b. Association
- c. Dependency
- d. Aggregation
- e. Composition

Quiz navigation

MCQ-1	MCQ-2	MCQ-3	MCQ-4	MCQ-5	MCQ-6	MCQ-7	MCQ-8	MCQ-9	MCQ-10	MCQ-11	MCQ-12
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**SLIIT**

# Online Exams

Sri Lanka Institute of Information Technology

27 answered out of 50 question

\_\_\_\_\_ attributes/functions are inaccessible to the child classes from the parent classes.

Select one:

- a. private
- b. public
- c. protected
- d. both (a) and (c)
- e. both (b) and (c)

Next page

**Quiz navigation**

MCO-40 MARKS

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STRUCTURED-20 MARKS

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ESSAY-40 MARKS

51	52
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FEEDBACK

53

Finish attempt...  
Time left 0:57:14  
Activate Windows  
Go to PC settings > Update & Security

```
int id_p;
class Child : public Parent
{
    int id_c;
};

int main()
{
}
```

OUTPUT:

```
> ./main
Child id is 7
Parent id is 91
>
```

Text editor toolbar:

A polymorphic function

Select one:

- a. has same name
- b. has same name but uses different parameters X
- c. has same name but uses different methods depending on the class.
- d. uses different methods to perform on the same class
- e. All of the above

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MCQ-40 MARKS

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STRUCTURED 20 MARKS

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Sri Lanka Institute of Information Technology

Question 43  
Not yet answered  
Marked out of 1.00  
Flag question

A chat box in a chat system should keep new and old chats. Also the chat box should manage the automatic greetings as well. Identify the **class/classes** and **responsibility/responsibilities** for each class from the above scenario.

Chat

Responsibility	Collaboration
store new and old chat data	
Manage automatic greetings	

Next page

MCQ-40 MARKS

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STRUCTURED 20 MARKS

41	42	43	44
45	46	47	48
49	50		

```

15 public:
16     Test1 t1;
17     void show()
18     { cout << "\n Number = "<< t1.get(); }
19 };
20
21 int main()
22 {
23
24 }
25

```

Output:

```
Number = 100
```

Question 50  
Not yet answered  
Marked out of 10  
Flag question

**QUESTION** **QUESTION** **QUESTION** **QUESTION** **QUESTION** **QUESTION** **QUESTION** **QUESTION** **QUESTION** **QUESTION**

Add the 3 lines of code to get the given output.

Program :

```

#include <iostream>
using namespace std;
class Address {
public:
    string city, state;
    Address(string city, string state)
    {
        this->city = city; this->state = state;
    }
};
class Employee
{
private:
    //PART A - Employee HAS-A Address
public:
    string name;
    Employee(string name, Address* address)
    {
        this->name = name;
        this->address = address;
    }
    void display()
    { cout<<name<< " "<<address->city<< " "<<address->state<<endl; }
};
int main(void)
{
    //PART B - Add the address as City=>"Noida" and state=>"UP"
    //PART C - Create the Employee with the above address and name=>"Kamal"
    //PART D - Call the display() function
    e1.display();
    return 0;
}

```

Address("Noida", "UP")

### Quiz navigation

MCQ-40 MARKS						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40		

### STRUCTURED-20 MARKS

41	42	43	44	45	46
48	49	50			

### ESSAY-40 MARKS

51	52

Address \* address = new Address("Noida", "UP")  
 Employee e1("Kamal")

Moodle

Class Name	order
Responsibilities	Collaborations
store order details	

Class Name	waiter
Responsibilities	Collaborations
confirm orders	
delete orders	order,ingredients

Class Name	ingredients
Responsibilities	Collaborations
check availability	
check progress	

Class Name	payment
Responsibilities	Collaborations
handle payments	table

Class Name	table
Responsibilities	Collaborations
assign waiters	waiter



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swered of question

"ikman.lk" is a popular website for retailers and property owners. In this website you can create your profile as a seller or a buyer. However, if you are a seller, you need to create advertisements for your goods/properties based on the category it belongs to. It can be a house, a vehicle, a mobile phone that can belong to the categories of "Properties", "Automobiles" and "Electronic items" respectively.

Based on the above scenario, If you are to convert the above application into objects and classes. Identify the relationship between "Advertisement" and "Price" classes

Answer: Association

Next page

MCQ-40 MARKS

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54

STRUCTURED 20 MARKS

41	42	43	44	45
46	47	48	49	50

Online Exams

Sri Lanka Institute of Information Technology

Question 2  
Not yet answered  
Marked out of 1.00  
Flag question

Given a description of a problem potential behaviors are identified by selecting

Select one:

- a. verb phrases in the statement
- b. noun phrases in the statement
- c. adjectives in the statement
- d. adverbs in the statement

1

1 2 3 4 5 6 7 8 9 10



## Online Exams

Sri Lanka Institute of Information Technology

Question 1

Not yet answered

Marked out of  
1.00

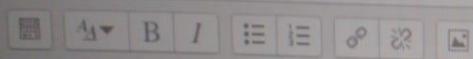
Flag question

What are the sections in CRC cards ?

Select one:

- a. Class name, Attributes & Methods
- b. Class name, Relationships & Collections
- c. Class name , Responsibilities & Collaborations
- d. Class name, Relationships & Collaborations

Next p



class name	student
Responsibilities	Collaborations
1. provide personal details	
2. keep list of students	
3. display list of student	

class name	record
Responsibilities	Collaborations
1. records student details	student

class name	staff member
Responsibilities	Collaborations
1. record marks	
2. record assignment details	

Sri Lanka Institute of Information Technology

Write 3 advantages of inheriting the characteristics from parent classes.

1) Reusability  
2) Readability  
3) One class properties and behaviours inherits by another class

MCQ - 40 MARKS

1	2	3	4	5
9	10	11	12	13
17	18	19	20	21
25	26	27	28	29
33	34	35	36	37

STRUCTURED - 20 MARKS

41	42	43	44	45	46
49	50				

ESSAY - 40 MARKS

51	52
----	----

FEEDBACK

53
----

Finish attempt...  
Time left 1:16:37

Sri Lanka Institute of Information Technology

Question 51  
Not yet answered  
Marked out of 1.00  
 Flag question

Consider the given scenario and write 5 CRC cards. You can identify 5 classes and use the template of the CRC card (Table ) and fill the details necessary. ( Do not use TAB key to move to columns in the table as it may lead to next question in the exam ) - ( 20 marks )

To initially enroll at the university, the student provides their personal details ( name, address, gender, date of birth ), along with the code of the course ( eg: Bachelor of Computer Science ) in which to enroll. A student record is created, and a unique student ID number is issued to the student. The system automatically enrolls the student to the compulsory first year subjects for the course.

When a student wants to enroll in a new subject, the student provides their student ID number and the subject code of the subject in which they wish to enroll. The system checks that the subject requested by the student is allowed for the course, in which the student is enrolled. If not, the enrollment request is rejected. The system checks what subjects ( if any ) are specified as prerequisites for the subject in which the student wishes to enroll. If the student has passed all the prerequisite subjects, they are enrolled in their desired subjects. Otherwise, the enrollment request is rejected.

A staff member can record a mark for student by accessing the system. He / she has to give a subject code and a password for that subject. If the password is correct, the system displays the list of students enrolled in the subject to the staff member. The staff member can then specify a mark for any student on the list.

When a new subject is introduced in the university curriculum, the administrator can access the system using a password and choose a subject code for the new subject. The system checks that this code is not already in use in the system, and if not, it creates a new subject record. The administrator then gives the subject name, the year of the course in which it may first be taken, a flag indicating whether or not it is a core subject and the codes of any prerequisites subjects.

To print a transcript of a student's results, an administrator has to access the system using a password. He then gives the student ID number of the student for whom the transcript is to be generated. The system checks the student's record and then creates a transcript showing all the subjects in which the student has been enrolled in each year and the mark for each subject. The transcript is formatted so that the header of the transcript shows the student's personal details and the course in which he or she is enrolled. Then the transcript can be saved and printed.

MCQ - 40 MARKS

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40		

STRUCTURED - 20 MARKS

41	42	43	44	45	46
49	50				

ESSAY - 40 MARKS

51
----

Quiz navigation

**SLIT** **Online Exams**  
**Sri Lanka Institute of Information Technology**

tion 47  
et answered  
ed out of  
ag question

A chat box in a chat system should keep new and old chats. Also the chat box should manage the automatic greetings as well. Identify the **class/classes and responsibility/responsibilities** for each class from the above scenario.

Chat  
Rg  
Cra

MCQ-40 MARKS

1	2	3	4
5	6	7	8
15	16	17	18
22	23	24	25
29	30	31	32
36	37	38	39
41	42	43	44

STRUCTURED-20 MARKS

Next page

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 Online Exams

Sri Lanka Institute of Information Technology

1 answered out of question

What are the sections in CRC cards ?

Select one:

- a. Class name, Attributes & Methods
- b. Class name, Relationships & Collections
- c. Class name , Responsibilities & Collaborations
- d. Class name, Relationships & Collaborations

Output:

```
Number = 100
```

Address(string city, string state)  
{  
 this->city = city; this->state = state;  
}  
};  
class Employee  
{  
private:  
 //PART A - Employee HAS-A Address  
public:  
 string name;  
 Employee(string name, Address\* address)  
 {  
 this->name = name;  
 this->address = address;  
 }  
 void display()  
 { cout<<name<< " "<<address->city<< " "<<address->state<<endl; }  
};  
int main(void) {  
 //PART B - Add the address as city=>"Noida" and state=>"UP"  
 //PART C - Create the Employee with the above address and name=>"Kamal"  
 //PART D - Call the display function of the employee object  
 el.display();  
 return 0;  
}  
  
output:  
\$ clang++-7 -pthread -std=c++17 -o main main.cpp  
\$ ./main  
Kamal Noida UP

STRUCTURED-20 MARKS  
41 42 43 44 45  
46 47 48 49 50  
ESSAY-40 MARKS  
51 52  
FEEDBACK  
53  
Finish attempt  
Time left 0:27:55  
ALL YOUR WORK  
IS HERE

**Online Exams**  
**Sri Lanka Institute of Information Technology**

"ikman.lk" is a popular website for retailers and property owners. In this website you can create your profile as a seller or buyer. However, if you are a seller, you need to create advertisements for your goods/properties based on the category it belongs to. It can be a house, a vehicle, a mobile phone that can belong to the categories of "Properties", "Automobiles" and "Electronic items" respectively.

Based on the above scenario, If you are to convert the above application into objects and classes, Identify the relationship between "Advertisement" and "Price" classes

Answer: **ASSOCIATION**

[Next page](#)

**Quiz navigation**

MCQ- 40 MARKS			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36

**Online Exams**  
**Sri Lanka Institute of Information Technology**

There is a popular music app called Spotify. In this app there are playlists that contains a collection of songs categorized based on their genre. Some of the main categories include Rock, Popular, Classical. Under these categories you can find different playlists. "90's rock" is a playlist found under Rock. "Hip-pop" is another playlist under popular music category.

Based on the above scenario, If you are to convert the above application into objects and classes, Identify the relationship between the classes of "Song", "Lyrics".

Answer: **Inheritance**

**ASSOCIATION**

[Next page](#)

**Quiz navigation**

MCQ- 40 MARKS			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36

STRUCTURED- 20 MARKS			
41	42	43	44
45	46	47	48
49	50		

ESSAY- 40 MARKS	
51	52

```
Employee::Employee()
{
    this->name = name;
    this->address = address;
}
void display()
{
    cout<<name<< " "<<address->city<< " "<<address->state<<endl;
}
int main(void)
{
    //PART B - Add the address as city=>"Noida" and state=>"UP"
    //PART C - Create the Employee with the above address and name=>"Kamal"
    el.display();
    return 0;
}
```

output:

```
> clang++-7 -pthread -std=c++17 -o main main.cpp
> ./main
Kamal Noida UP
>
```

SLIIT Online Exams

Sri Lanka Institute of Information Technology

Properties and behaviors of the lecturers are grouped in a classed named as Lecturer. What is the object-oriented principle applied here?

Answer: Encapsulation

Quiz navigation

2. record assignment details	
class name	subject
Responsibilities	Collaborations
1. keep list of subjects	
2. enroll subject	
3. give subject code	student
4. create new record	

class name	transcript
Responsibilities	Collaborations
1. generate transcript	
2. save transcript	staff member
3. print transcript	student

**SLIIT Online Exams**  
Sri Lanka Institute of Information Technology

**Question 49**  
Not yet answered  
Marked out of 1.00  
 Flag question

Implement the main method to get the given output.

Program:

```

1 #include <iostream>
2 using namespace std;
3
4 class Test1 {
5 private:
6     int num;
7 public:
8     void set(int i)
9     { num = i; }
10    int get()
11    { return num; }
12 };
13
14 class Test2 {
15 public:
16     Test1 t1;
17     void show()
18     { cout << "\n Number = " << t1.get(); }
19 };
20
21 int main()
22 {
23
24 }
```

**Quiz navigation**

MCQ - 40 MARKS					
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40		
STRUCTURED - 10 MARKS					
41	42	43	44	45	46
47	48	49	50		
TOTAL MARKS					
51	52				

48  
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Sri Lanka Institute of Information Technology

Write 3 advantages of inheriting the characteristics from parent classes.

**Reusability  
readability**

Quiz navigation

MCQ-40 MARKS

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40

Next Question

**X**

Question 52  
Not yet answered  
Marked out of 1.00  
Flag question

Sri Lanka Institute of Information Technology

Read the following description and write the coding of 5 classes you have identified using a class diagram. You need not upload or / draw the class diagram here. You have to only write the coding of the classes showing the relationships clearly. You need not write all methods of the classes or the attributes. You may need to include the necessary methods and the attributes only to show the correct relationships between the classes. ( Do not use the TAB key while you type in the answer box as it may go to next Question ) - (20 marks)

An Online bookshop sells different things. Currently it has books, magazines and CDs. All these products have some common types of information such as price, title etc.. Also each product may have specific information such as author, number of pages, artists, type etc.. ).  
The registered customers can place orders for products. The ordered products are usually delivered together, but sometimes several shipments are needed when the store runs out of products for a while. An order may contain several products.  
The products are delivered to personal customers and payments are done at the delivery. The business customers will get their orders directly, and they will be sent an invoice afterwards. Both customer types can make the payment also by using credit card. When registering, a customer is prompted to give contact and personal information needed for authentication, delivery of orders and invoicing.  
The bookshop system must be able to add and remove customers, add new products and view/ update existing products, make or remove orders and view existing orders, view and generate reports on the products.

Quiz navigation

MCQ-40 MARKS

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40		

STRUCTURED 20 MARKS

41	42	43	44	45	46
47	48	49	50		



## Online Exams

Sri Lanka Institute of Information Technology

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There is a popular music app called Spotify. In this app there are playlists that contains a collection of songs categorized based on their genre. Some of the main categories include Rock, Popular, Classical. Under these categories you can find different playlists. "90's rock" is a playlist found under Rock, "Hip-pop" is another playlist under popular music category.

Based on the above scenario. If you are to convert the above application into objects and classes. Identify the relationship between the classes of "Song", "Lyrics"?

Answer:

Assumption

Next page

### Quiz navigation

MCQ- 40 MARKS

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40		
41	42	43	44	45	46	47

STRUCTURED 30 MARKS

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## Online Exams

Sri Lanka Institute of Information Technology

Question 14  
Not yet answered  
Marked out of 30  
Flag question

What is Inheritance?

Select one:

- a. Overloading of classes
- b. Classes with same names
- c. Derive new classes from existing classes
- d. Wrap data into one class.

Online Exams

Sri Lanka Institute of Information Technology

5  
Answered  
of  
Question

What type of relationships are represented by the symbols in the figure given below?



A.	Composition	Aggregation
B.	Aggregation	Composition
C.	Inheritance	Aggregation
D.	Association	Inheritance

Select one:

a. A

\* b. B

c. C

d. D

e X

Back | Forward | Stop | Refresh

# Online Exams

Sri Lanka Institute of Information Technology

Given a description of a problem potential objects are identified by selecting

Select one:

- a. verb phrases in the statement
- b. noun phrases in the statement
- c. adjectives in the statement
- d. adverbs in the statement

Following class is given

```
Book  
int bookID;  
char bookName[50];  
Book(int bid, char *bName);  
void print();
```

What is the correct coding for creating an object of the book class dynamically?

Select one:

- a. book \*b1 = new Book(1001, "Object Oriented Concepts");
- b. Book \*b1 = new Book(1001, "Object Oriented Concepts");
- c. book \*b1 = new Book();
- d. Book b1 = new Book();

Moodle

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 Online Exams  
Sri Lanka Institute of Information Technology

Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

OOA and OOD uses

Select one:

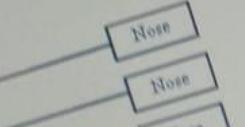
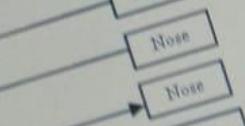
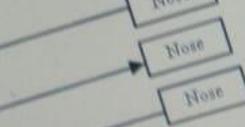
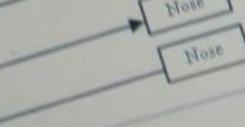
- a. Flow charts
- b. Algorithms
- c. CRC cards
- d. All of the above

## Online Exams

Sri Lanka Institute of Information Technology

Select the most correct diagram to show the relationship of Face class and Nose class.

Select one:

- a. 
- b. 
- c. 
- d. 

 Sri Lanka Institute of Information Technology

Online Exams

**Question 2**

Not answered  
Part of

Flag question

A correct list of responsibilities of an Online Order System is:

Select one:

- a. Add New Item, Restock, Update Items
- b. Order Form, Add New Item, Customer Details Form
- c. Order Form, Customer Details Form, Supplier
- d. Add New Items, update items, Item

 Sri Lanka Institute of Information Technology

Online Exams

Which of the following C++ statements can be used to remove a dynamic object from the memory.

Select one:

- a. new
- b. free
- c. delete
- d. destructor

 Online Exams  
Sri Lanka Institute of Information Technology

**Question 4**  
Not yet answered  
Marked out of 1.00  
 Flag question

What is incorrect about CRC Cards

Select one:

- a. Responsibilities relate to actions described in requirements ✓
- b. Collaborations determine what other classes the objects interact with ✓
- c. Responsibilities are the list of properties in the class
- d. Collaborations can be identified by studying the responsibilities ✓

 Online Exams  
Sri Lanka Institute of Information Technology

**Question 6**  
Not yet answered  
Marked out of 1.00  
 Flag question

Find the incorrect way of creating an object from a class called "vehicle"

Select one:

- a. vehicle \*v;  
v = new vehicle();
- b. vehicle \*v = new vehicle();
- c. vehicle v;
- d. vehicle \*v = vehicle();

4

answered  
out of  
question

CRC stands for \_\_\_\_\_

Select one:

- a. Class Responsibility and Collaboration
- b. Class Relationship and Collection
- c. Class Relationship and Collaboration
- d. Class Reanalysis and Collaboration



Question 7

Not yet answered

Marked out of  
1.00

Flag question

If Rectangle is a class, Rectangle \*r will

Select one:

- a. Create a static object of Rectangle class.
- b. Create a dynamic object of Rectangle class.
- c. Create a variable of Rectangle class.
- d. None of the above.



## Sri Lanka Institute of Information Technology

Consider the following class

```
1.  
class student  
{  
    private :  
        int stdNo;  
        char name[20];  
        int *marks;  
    public:  
        student(int pStdNo, char *pName, int s);  
        void inputMarks();  
        int calculateTotal();  
};
```

If an object called `st1` of the above class was created dynamically, how would you call the "inputMarks()"

Select one:

- a. `st1->inputMarks();`
- b. `int marks = st1->inputMarks();`
- c. `cout<<st1->inputMarks();`
- d. `st1.inputMarks();`

acer



 Online Exams  
Sri Lanka Institute of Information Technology

**Question 1**  
Not yet answered  
Marked out of 1.00  
 Flag question

Classes in the program may corresponds to

Select one:

- a. Verbs in the Problem Statement
- b. CRC Cards
- c. Objects
- d. Properties

 Online Exams  
Sri Lanka Institute of Information Technology

**Question 1**  
Not yet answered  
Marked out of 1.00  
 Flag question

OOA and OOD uses

Select one:

- a. Flow charts
- b. Algorithms
- c. CRC cards
- d. All of the above

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 3

Not answered

0 out of 1

Flag question

OOA and OOD uses

Select one:

- a. Flow charts
- b. Algorithms
- c. CRC cards
- d. All of the above



# Online Exams

Sri Lanka Institute of Information Technology

Given a description of a problem potential behaviors are identified by selecting

Select one:

- a. verb phrases in the statement
- b. noun phrases in the statement
- c. adjectives in the statement
- d. adverbs in the statement



# Online Exams

Sri Lanka Institute of Information Technology

Question 9  
Not yet answered  
Marked out of  
1.00  
Attempted  
1 of 1  
View question

Select the statement that calls printSalary() function of Employee class using the dynamic object named as employee.

Select one:

- a. employee.printSalary();
- b. Employee.printSalary();
- c. Employee.printSalary();
- d. employee1.printSalary();

Next page

Question 5

Not yet answered

Marked out of

0

Flag question

One CRC card represents \_\_\_\_\_

Select one:

- a. One attribute
- b. One class
- c. Two attributes
- d. One relationship

Online Exams

Sri Lanka Institute of Information Technology

Question 13

Not yet answered

Marked out of 1.00

Flag question

Aggregation is

Select one:

- a. Expressing a part of a relationship and is stronger form of an association relationship.
- b. Expressing a part of a relationship and is weaker form of an association relationship.
- c. Expressing a "is-a relationship" and is stronger form of an association relationship.
- d. Expressing a "is-a relationship" and is weaker form of an association relationship.

SLIIT

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## Online Exams

Sri Lanka Institute of Information Technology

1  
answered  
out of  
question

Classes in the program may corresponds to

Select one:

- a. Verbs in the Problem Statement
- b. CRC Cards
- c. Objects
- d. Properties

Online Exams

Sri Lanka Institute of Information Technology

5  
answered  
3 out of  
eg question

Select incorrect statement regarding CRC cards.

Select one:

- a. The nouns in a given scenario helps to identify the classes ✓
- b. The verbs & verb phrases in a given scenario helps to identify the responsibilities ✓
- c. CRC card is a technique that is used in object oriented designing stage ✓
- d. Five sections are included in CRC card structure.

Online Exams

Sri Lanka Institute of Information Technology

18  
answered  
out of  
question

Consider following statements.

A) Virtual functions support dynamic polymorphism ✓

B) Virtual functions must be non-static member function of the class ✓

C) Constructor Functions cannot be virtual ✓

Select one:

a. Only A is incorrect. ✗

b. A and B are correct. ✓

c. A, B and C are correct. ✗

d. B and C are incorrect. ✗

Question 7  
yet answered  
Marked out of  
1  
Flag question

Consider the following class

1.

```
class Student
{
    private :
        int stdNo;
        char name[20];
        int marks[3];
    public:
        student(int pStdNo, char *pName);
        void assignMarks();
        float calculateAvg();
        void print();
};
```

What is the correct way to declare a student object dynamically ?

Select one:

- a. Student std = new Student();
- b. Student \*std = new Student();
- c. Student \*std = new Student(1001, "A. Perera");
- d. Student \*std = gcnew Student(1001, "A. Perera");

File X

X C | i | A

# Online Exams

---

Sri Lanka Institute of Information Technology

Question 4  
Not answered  
1 out of 1  
Flag question

A student prepared a noun list from use case scenario & he is going to remove what is going to apply?

Customer	Order
Item	Order number
Shopping cart	Order status
Payment	Order details
Address	Email
Sale	System

Select one:

- a. Meta language
- b. Redundant
- c. Outside scope of system
- d. An attribute

 Online Exams

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C++ Inheritance relationship is

Select one:

- a. Association
- b. Is-A
- c. Has-A
- d. None



## Online Exams

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### Sri Lanka Institute of Information Technology

Question 1

1 yet answered  
of 0

For Question

Classes in the program may corresponds to

Select one:

a. Verbs in the Problem Statement

b. CRC Cards

c. Objects

d. Properties



Online Exams

Sri Lanka Institute of Information Technology

Question 7

Not yet answered

Marked out of  
1.00

Flag question

Select the statement that calls `printSalary()` function of `Employee` class using the `dynamic` object named as `employee1`

Select one:

- a. `employee1.printSalary();`
- b. `Employee->printSalary();`
- c. `Employee.printSalary();`
- d. `employee1->printSalary();`

The screenshot shows a web browser window with a blue header bar. The header contains the text "Online Exams" and "Sri Lanka Institute of Information Technology". Below the header, there is a question and a list of options for selection.

Which of the following C++ statements can be used to remove a dynamic object f

Select one:

- a. new
- b. free
- c. delete
- d. destructor

Online Exams

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1 answered  
out of  
question

What is the main reason to have relationships between classes?

Select one:

a. To use the functionality of one class into other

b. To enhance the communication between classes

c. To increase code re-usability

d. All of the mentioned

**Question 6**  
Not yet answered  
Marked out of 1.00  
Flag question

**Online Exams**  
**Sri Lanka Institute of Information Technology**

The methods of a dynamic object can be accessed via the operator

Select one:

- a. .
- b. \*
- c. ->
- d. &

Next

**Question 6**  
Not yet answered  
Marked out of 1.00  
Flag question

**Online Exams**  
**Sri Lanka Institute of Information Technology**

The methods of a dynamic object can be accessed via the operator

Select one:

- a. .
- b. \*
- c. ->
- d. &

**Question 14**  
Not yet answered  
Marked out of 1.00  
 Flag question

Which of the following term is best defined by the following statement?  
"A process in which one object acquires all the properties and behaviors of its parent object automatically"

Select one:

- a. Generalization
- b. Association
- c. Dependency
- d. Aggregation

Next page

Moodle

← → × C | ⓘ | ↻

**Question 11**  
Not yet answered  
Marked out of 1.00  
 Flag question

Aggregation is

Select one:

- a. Expressing a part of a relationship and is stronger form of an association relationship.
- b. Expressing a part of a relationship and is weaker form of an association relationship.
- c. Expressing a "is-a relationship" and is stronger form of an association relationship.
- d. Expressing a "is-a relationship" and is weaker form of an association relationship.

Next page

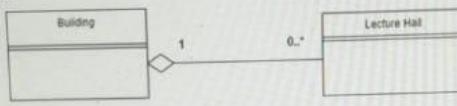
Online Exams

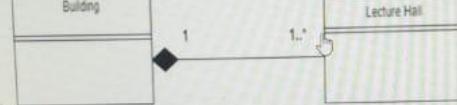
Sri Lanka Institute of Information Technology

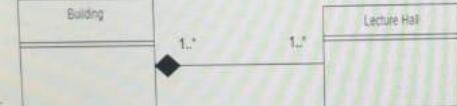
In a university, every building has at least one lecture hall. One lecture hall is exactly a part of a building.

How can you model the given above scenario?

Select one:

a. 

b. 

c. 

d. 

idle

X C | ⓘ | A

 Online Exams

Sri Lanka Institute of Information Technology

15  
Answered  
out of  
question

Pure Virtual function can be written as

Select one:

- a. void virtual show()=0
- b. void virtual show()==0
- c. virtual void show()=0
- d. virtual void show()==0



## SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Classes in the program may corresponds to

Select one:

- a. Verbs in the Problem Statement
- b. CRC Cards
- c. Objects
- d. Properties

Moodle

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Question 13

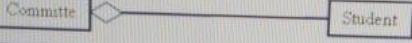
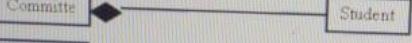
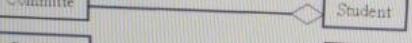
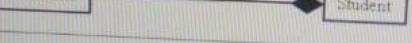
Not yet answered

Marked out of 1.00

Flag question

Select the most correct diagram to show the relationship of Committee class and Student class.

Select one:

- a. 
- b. 
- c. 
- d. 



Select the statement that calls `printSalary()` function of `Employee` class using the dynamic object named as `employee1`.

Select one:

- a. `employee1.printSalary();`
- b. `Employee->printSalary();`
- c. `Employee.printSalary();`
- d. `employee1->printSalary();`

[Next page](#)

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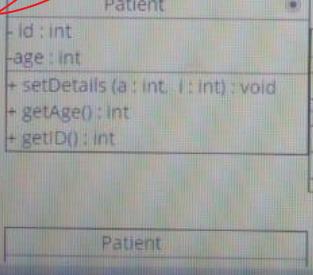
12 answered 1 out of 1 question

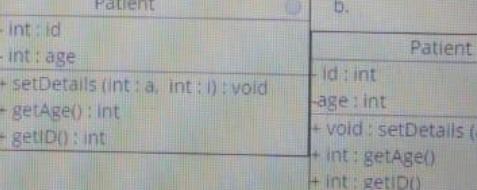
Sri Lanka Institute of Information Technology

Select the correct UML notation for the class given in C++ code below.

```
class Patient {  
private:  
    int id;  
    int age;  
public:  
    void setDetails(int a, int i);  
    int getAge();  
    int getID();  
};
```

Select one:

a. 

b. 

c. 



8  
Answered  
out of  
question

The methods of a dynamic object can be accessed via the operator

Select one:

- a. ,
- b. \*
- c. ->
- d. &

≡ Quiz n

1	2
8	9
15	16
22	23
29	30
36	37
43	44
50	51

[Next page](#)

**bodle**

10 answered 1 out of question

Consider the following class

1.

```
class Student
{
    private :
        int stdNo;
        char name[20];
        int marks[3];
    public:
        student(int pStdNo, char *pName);
        void assignMarks();
        float calculateAvg();
        void print();
};
```

What is the correct way to declare a student object dynamically ?

Select one:

- a. Student std = new Student();
- b. Student \*std = new Student();
- c. Student \*std = new Student(1001, "A. Perera");
- d. Student \*std = gnew Student(1001, "A. Perera");

Question 12

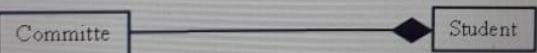
Not yet answered

Marked out of  
1.00

Flag question

Select the most correct diagram to show the relationship of Committee class and Student class.

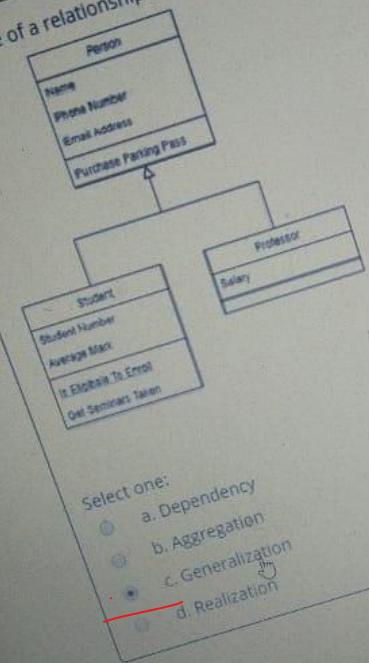
Select one:

- a. 
- b. 
- c. 
- d. 

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What type of a relationship is represented by Person class and student?



Select one:

- a. Dependency
- b. Aggregation
- c. Generalization
- d. Realization

Consider the following class

```
1.
class student
{
    private :
        int stdNo;
        char name[20];
        int *marks;
public:
    student(int pStdNo, char *pName, int s);
    void inputMarks();
    int calculateTotal();
};
```

If an object called **st1** of the above class was created dynamically, how would you call the "inputMarks" function?

Select one:

- a. st1->inputMarks();
- b. int marks = st1->inputMarks();
- c. cout<<st1->inputMarks();
- d. st1.inputMarks();



## Online Exams

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**Question 18**

Not yet answered

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1.00

Flag question

Types of inheritance in C++ are

Select one:

- a. Multilevel
- b. Multiple
- c. Hierarchical
- d. All the above

oodle

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14  
answered  
out of  
question

Which of the following relationship indicates that objects of specific class can occur independently of other objects?

Select one:

- a. Aggregation
- b. Association
- c. Composition
- d. Both Aggregation and Association

**Question 3**

Not yet answered

Marked out of  
1.00

Flag question

A correct list of responsibilities of an Online Order System is:

Select one:

- a. Add New Item, Restock, Update Items
- b. Order Form, Add New Item, Customer Details Form
- c. Order Form, Customer Details Form, Supplier
- d. Add New Items, update items, Item

20  
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out of  
question

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How do you model the following scenario using a class diagram.  
"There are different fish species. E.g.-Goldfish, Guppy ,Blue tang"

Select one:

a.

```
graph TD; Fish[Fish] --> Goldfish[Goldfish]; Fish --> Guppy[Guppy]; Fish --> Bluetang[Bluetang]
```

b.

```
graph TD; Fish[Fish] --> Guppy[Guppy]; Fish --> Bluetang[Bluetang]; Guppy --> Goldfish[Goldfish]; Guppy --> BlueTang[Blue Tang]; Guppy --> Guppy2[Guppy];
```

c.

```
graph TD; Fish[Fish] --> Guppy[Guppy]; Fish --> Bluetang[Bluetang]; Guppy --> Goldfish[Goldfish]; Guppy --> BlueTang[Blue Tang]; Guppy --> Guppy2[Guppy]; Guppy2 --> Guppy3[Guppy]; Guppy2 --> Guppy4[Guppy]; Guppy2 --> Guppy5[Guppy];
```

d. None of the above



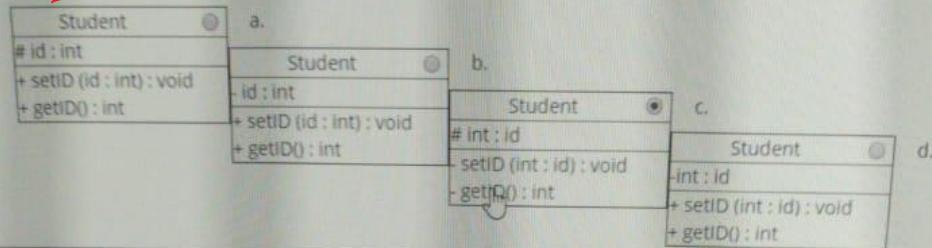
The diagram 'a.' shows a single inheritance relationship where the 'Fish' class is the superclass and three specific fish species ('Goldfish', 'Guppy', 'Bluetang') are subclasses. A red arrow points from the question text to this diagram.

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System has three classes, **Student**, **WeekendStudent** and **WeekdayStudent**. WeekendStudent class and WeekdayStudent class inherit from Student class. Select the correct UML notation for **Student** class.

Select one:



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What type of relationships are represented by the symbols in the figure given below?



- A. Composition
- B. Aggregation
- C. Inheritance
- D. Association

Aggregation  
Composition  
Aggregation  
Inheritance

Select one:

- a. A
- b. B
- c. C
- d. D

Moodle

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Question 13

Not yet answered

Marked out of 1.00

Flag question

Which relationship says that objects are strongly dependent?

Select one:

a. Aggregation only

b. Association

c. Composition and Dependency

d. Both Composition and Association



**Question 15**

Not yet answered  
Marked out of  
1.00

Flag question

In inheritance, what functions can be inherited from base class in C++ program

Select one:

- a. Constructor
- b. Destructor
- c. Static function
- d. None of the above



Moodle

- → X C | i | A

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**Question 3**  
Not yet answered  
Marked out of 1.00  
Flag question

Classes in the program may corresponds to

Select one:

- a. Verbs in the Problem Statement
- b. CRC Cards
- c. Objects
- d. Properties

Moodle

Question 11  
Not yet answered  
Marked out of 1.00  
Flag question

Which relationship type can be considered as weak version of Association type of relationship?

Select one:

- a. Composition
- b. Aggregation
- c. Dependency
- d. Inheritance

**Online Exams**

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Find the incorrect way of creating an object from a class called "vehicle"

Select one:

- a. vehicle \*v;  
v = new vehicle();
- b. vehicle \*v = new vehicle();
- c. vehicle v;
- d. vehicle \*v = vehicle();

X C O D



Online Exams

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10

Answered  
out of  
question

Following class is given

```
Book
int bookID;
char bookName[50];
Book(int bid, char *bName);
void print();
```

What is the correct coding for creating an object of the book class dynamically?



Select one:

- a. book \*b1 = new Book(1001, "Object Oriented Concepts");
- b. Book \*b1 = new Book(1001, "Object Oriented Concepts");
- c. book \*b1 = new Book();
- d. Book b1 = new Book();



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Online Exams

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Question 32

Not yet answered

Marked out of 1.00

Flag question

Types of inheritance in C++ are

Select one:

- a. Multilevel
- b. Multiple
- c. Hierarchical
- d. All the above

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Question 33  
Not yet answered  
Marked out of 1.00  
Flag question

Which of the following best describes Inheritance concept in OOC?

Select one:

- a. Use the code already written once.
- b. Copy code already written
- c. Use already defined functions
- d. Use data and functions into derived segments.

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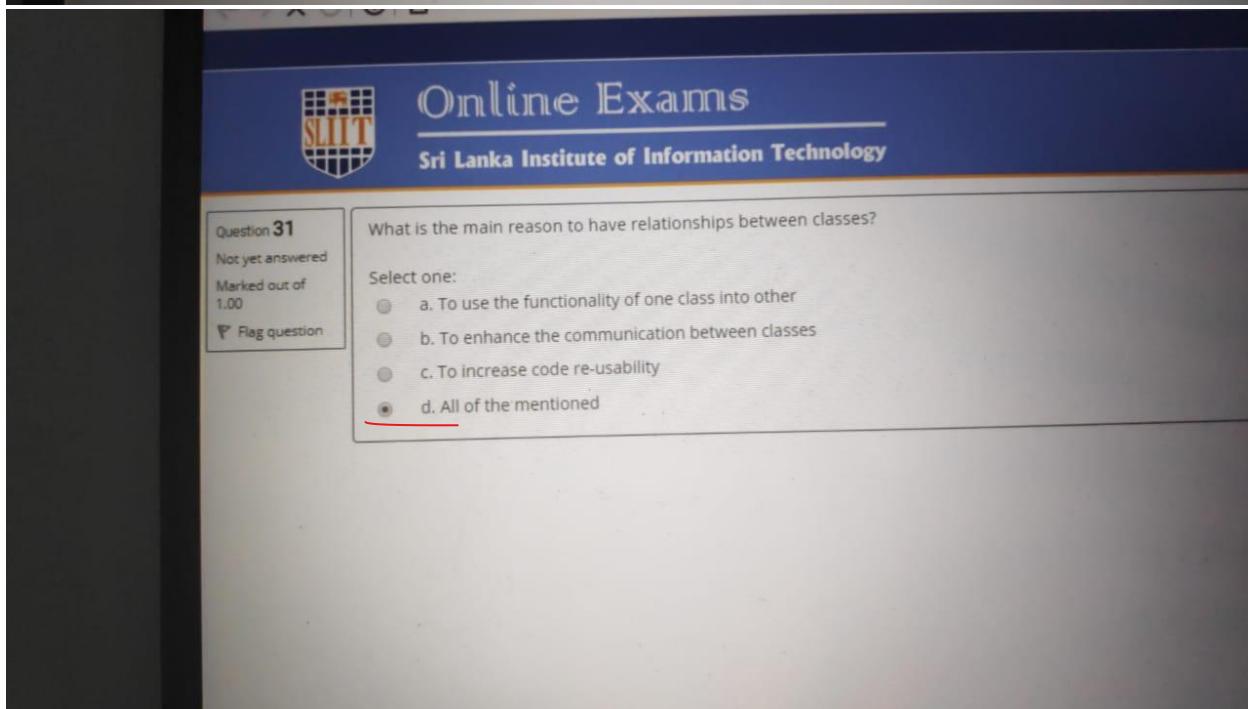
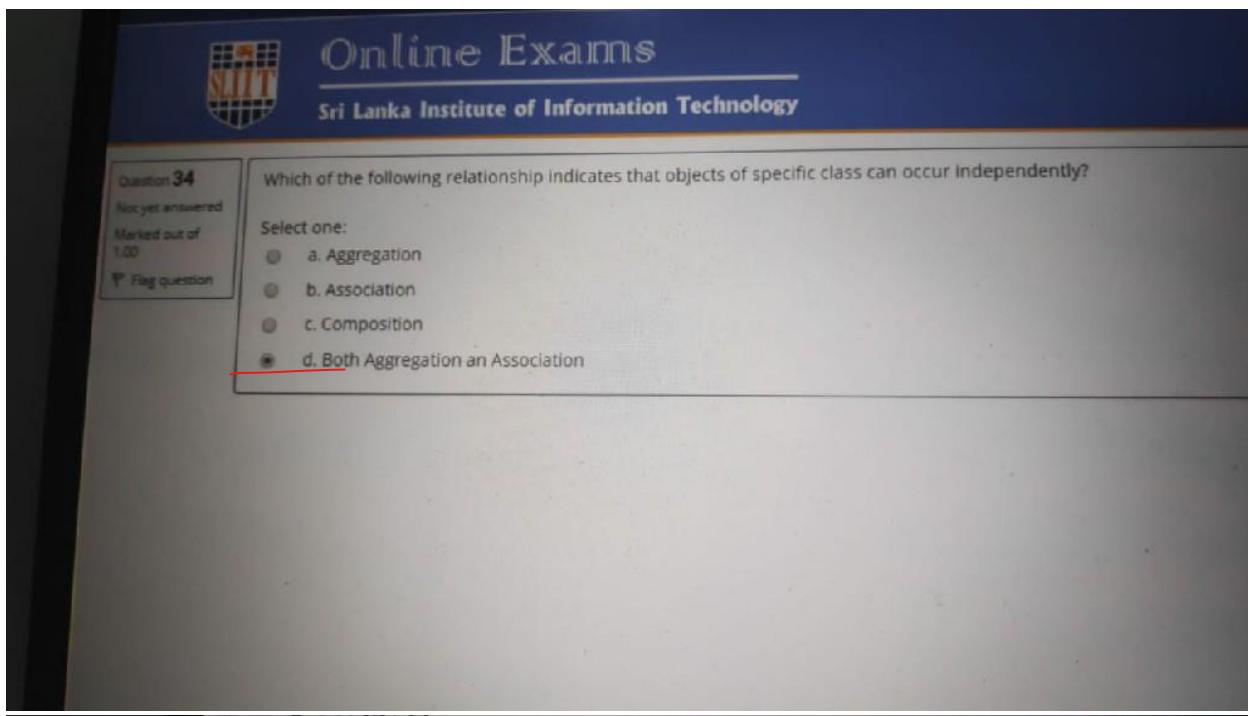
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Question 31  
Not yet answered  
Marked out of 1.00  
Flag question

What is the main reason to have relationships between classes?

Select one:

- a. To use the functionality of one class into other
- b. To enhance the communication between classes
- c. To increase code re-usability
- d. All of the mentioned

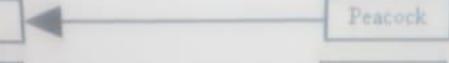


# Online Exams

Sri Lanka Institute of Information Technology

Select the most correct diagram to show the relationship of **Bird** class and **Peacock** clas

Select one:

- a. 
- b. 
- c. 
- d. 

odle

X C I A

## Online Exams

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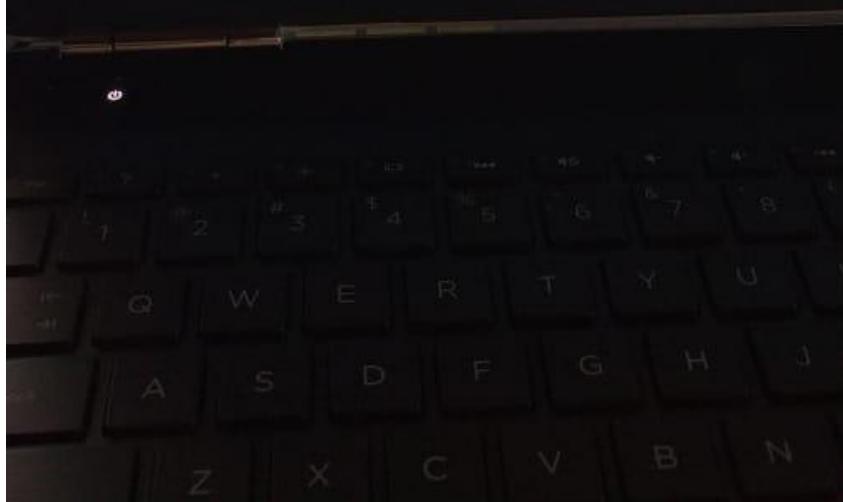
tion 16  
yet answered  
Med out of 1  
Flag question

The way a relationship is built in Association is:

Select one:

- a. Through constructor
- b. Through the objects of classes
- c. Through de~~str~~uctor
- d. Through class Names

hp



Moodle

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Question 15

Not yet answered

Marked out of 1.00

Flag question

Which of the following best describes Inheritance concept in OOC?

Select one:

- a. Use the code already written once.
- b. Copy code already written
- c. Use already defined functions
- d. Use data and functions into derived segments.

hp

Moodle X C | O | +

Question 28  
Not yet answered  
Marked out of 1.00  
Flag question

### Online Exams

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Select the incorrect statement for class A, class B and class C given below.

A      B      C

Select one:

- a. Class B inherits the properties of class C.
- b. Class C inherits the properties of class B.
- c. Class B inherits properties of class A.
- d. Class C inherits the properties of class A.

Question 37

Not yet answered

Marked out of  
0.00

\* Flag question

What is Inheritance?

Select one:

- a. Overloading of classes
- b. Classes with same names
- c. Derive new classes from existing classes
- d. Wrap data into one class.



## Sri Lanka Institute of Information Technology

Select the incorrect statement for class A, class B and class C given below.



Select one:

- a. Class B inherits the properties of class C.
- b. Class C inherits the properties of class B.
- c. Class B inherits properties of class A.
- d. Class C inherits the properties of class A.

Pure Virtual function can be written as

Select one:

- a. void virtual show()=0
- b. void virtual show()==0
- c. virtual void show()=0
- d. virtual void show()==0

Moodle

Online Exams

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Question 13

Not yet answered

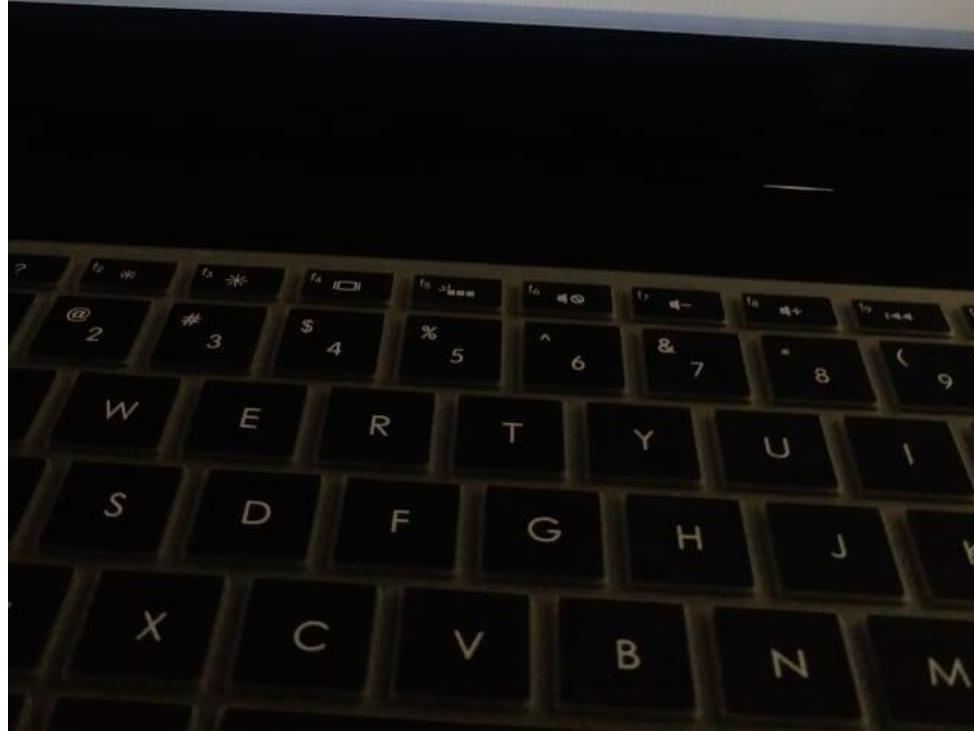
Marked out of 1.00

Flag question

Composition is a strong form of

Select one:

- a. Inheritance
- b. Encapsulation
- c. Aggregation
- d. All the above



**Question 11**

Not yet answered

Marked ~~out of~~ 1.00

Flag question

C++ Inheritance relationship is

Select one:

- a. Association
- b. Is-A
- c. Has-A
- d. None

How can you model the given above scenario?

Select one:

- a. 
- b. 
- c. 
- d. 

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Question 10

yet answered

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1

Flag question

Which of the following C++ statements can be used to remove a dynamic object from the memory.

Select one:

- a. new
- b. free
- c. delete
- d. destructor

Online Exams

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tion 11  
yet answered  
ed out of  
Flag question

Select the **correct** statement for class A, class B and class C given below.

```
graph LR; A[A] --> B[B]; B --> C[C]
```

Select one:

- a. Objects of class B cannot exist without an object of class A ✓
- b. Objects of class C cannot exist without an object of class B. ✗
- c. Objects of class C cannot exist without an object of class A. ✗
- d. Objects of class A cannot exist without an object of class B

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35 answered  
3 out of 10  
tag question

Which of the following statement is true about the diagram given below?

Select one:

- a. X is a part of Y.
- b. If an instance of X is deleted, all the contained instances of Y are also deleted.
- c. If an instance of Y is deleted, all the contained instances of X are also deleted.
- d. If an instance of X is deleted, the contained instances of Y are not affected.

Online Exams

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Section 33  
0 yet answered  
Marked out of  
100  
 Flag question

In inheritance, what functions can be inherited from base class in C++ program

Select one:

- a. Constructor
- b. Destructor
- c. Static function
- d. None of the above

16  
answered  
out of  
question

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Select the correct statement about the relationship between super class and sub classes

Select one:

- a. A sub class can only be inherited from one super class X
- b. The sub class must not have more attributes than the super class X
- c. A super class must not be abstract.
- d. The sub class inherits the properties of the super class.

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Question 31

Not yet answered

Marked out of 1.00

Flag question

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What is the main reason to have relationships between classes?

Select one:

- a. To use the functionality of one class into other
- b. To enhance the communication between classes
- c. To increase code re-usability
- d. All of the mentioned



## Online Exams

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Question 31

Not yet answered

Marked out of  
1.00

Flag question

Which of the following statement is true about the diagram given below?



Select one:

- a. X is a part of Y.
- b. If an instance of X is deleted, all the contained instances of Y are also deleted.
- c. If an instance of Y is deleted, all the contained instances of X are also deleted.
- d. If an instance of X is deleted, the contained instances of Y are not affected.

## Online Exams

Sri Lanka Institute of Information Technology

Which statement is TRUE about dependency relationship?

Select one:

- a. A dependency occurs when one object invokes another object's functionality in order to accomplish some specific task.
- b. A dependency is always a uni-directional relationship ✓
- c. This is weaker relationship than the Association ✓
- d. All of the above



Online Exams

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Question 15

Not answered

3 out of

Flag question

Which of the following best describes Inheritance concept in OOC?

Select one:

- a. Use the code already written once.
- b. Copy code already written
- c. Use already defined functions
- d. Use data and functions into derived segments.

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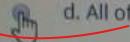
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19 answered  
out of 1 question

What is the main reason to have relationships between classes?

Select one:

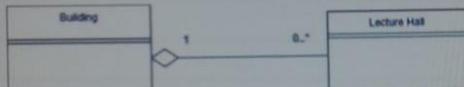
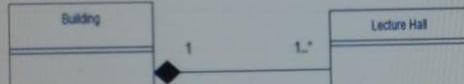
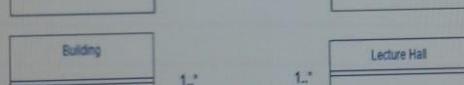
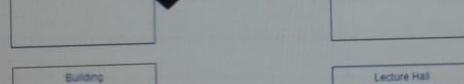
- a. To use the functionality of one class into other
- b. To enhance the communication between classes
- c. To increase code re-usability
- d. All of the mentioned



Question 24  
Not yet answered  
Marked out of 1.00  
 Flag question

In a university, every building has at least one lecture hall. One lecture hall is exactly a part of a building.  
How can you model the given above scenario?

Select one:

- a. 
- b. 
- c. 
- d. 



Sri Lanka Institute of Information Technology

Which of the following cannot be overloaded in C++?

Select one:

- a. Increment operator
- b. Constructor
- c. Destructor
- d. New and delete operator



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Question 22

Not yet answered

Marked out of  
1.00

Flag question

Types of inheritance in C++ are:

Select one:

- a. Multilevel
- b. Multiple
- c. Hierarchical
- d. All the above



le x  
X C | i | A

Online Exams

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Which of the following cannot be overloaded in C++?

Select one:

- a. Increment operator
- b. Constructor
- c. Destructor
- d.



## Online Exams

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Question 51

Not yet answered  
Marked out of  
1.00

Flag question

Which kind of relationship type exist in the following code segment?

```
class Fraction {  
    private:  
        int n_numerator;  
        int n_denominator;  
    public:  
        Fraction(int numerator=0, int denominator=1)  
        {  
            n_numerator=n numerator; n_denominator=n denominator;  
            // We put reduce() in the constructor to ensure any fractions we make get reduced  
            // Since all of the overloaded operators create new fractions, we can guarantee to  
            reduce();  
        }  
}
```

Select one:

- a. Aggregation
- b. Both Association and Composition
- c. Composition
- d. Composition

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Online Exams

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Question 27

Not yet answered

Marked out of 1.00

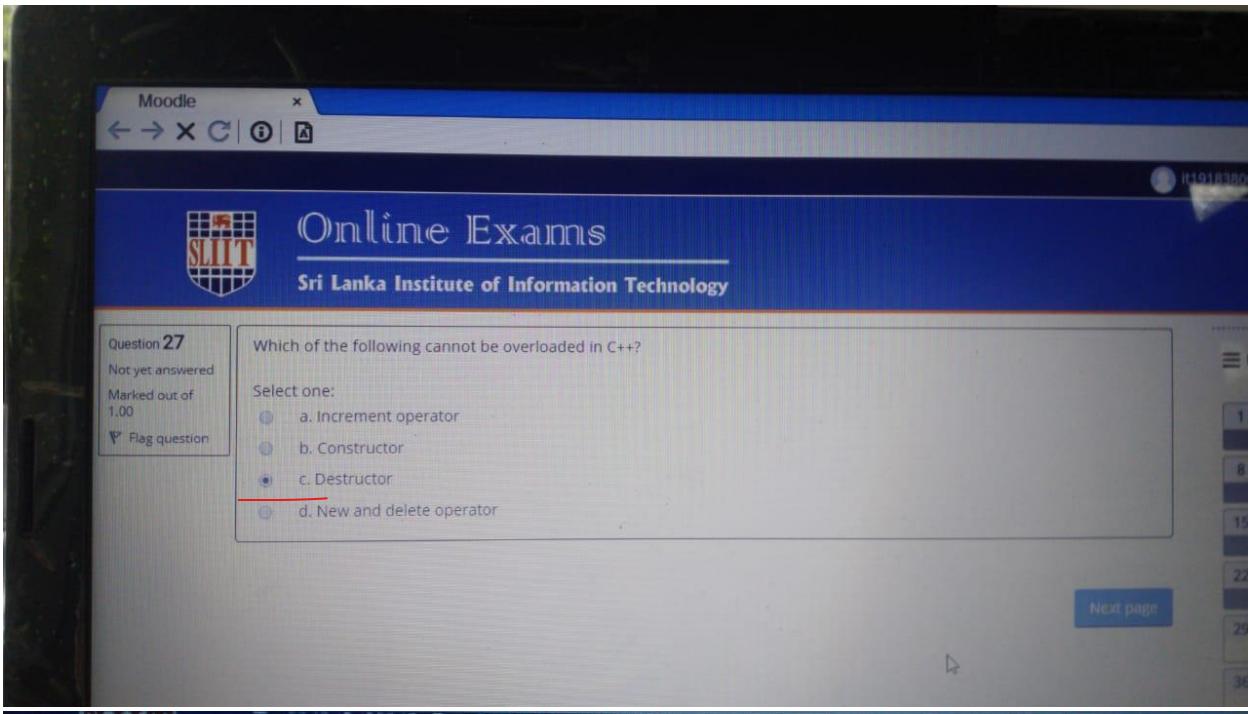
Flag question

Which of the following cannot be overloaded in C++?

Select one:

- a. Increment operator
- b. Constructor
- c. Destructor
- d. New and delete operator

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Sri Lanka Institute of Information Technology

Question 15

Not yet answered

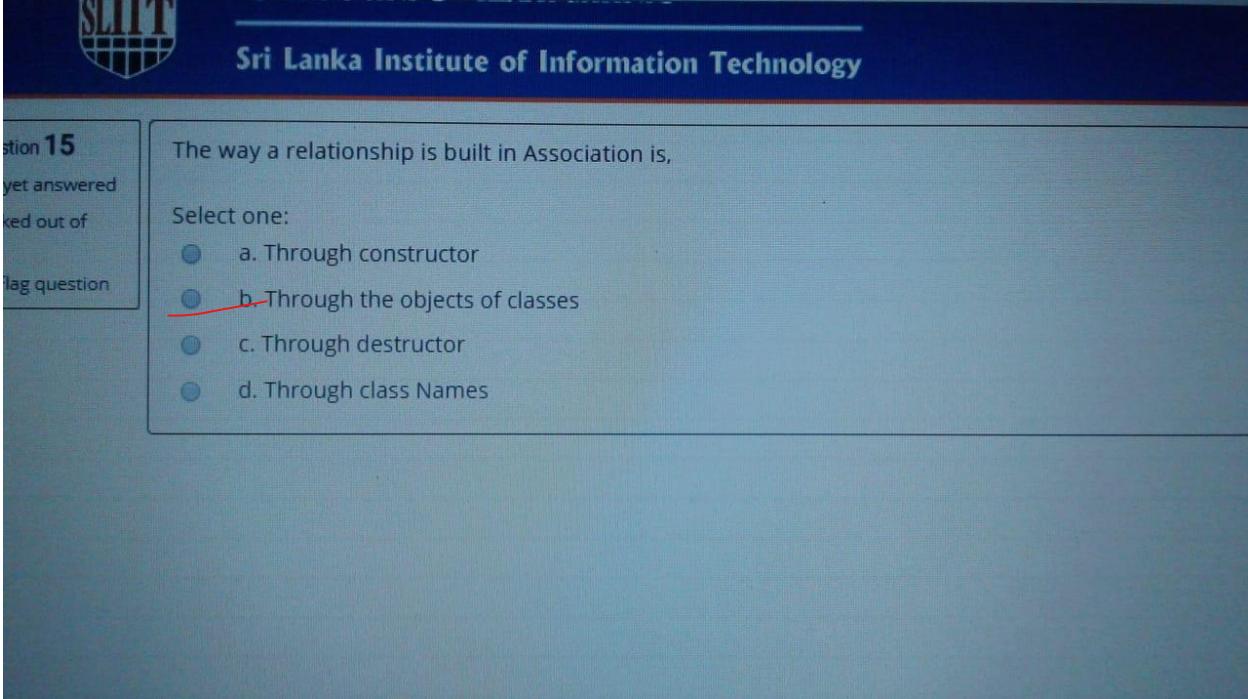
Marked out of 1.00

Flag question

The way a relationship is built in Association is,

Select one:

- a. Through constructor
- b. Through the objects of classes
- c. Through destructor
- d. Through class Names



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Question 41  
Not yet answered  
Marked out of 1.00  
Flag question

A Microphone class contains a Circuit class. The Circuit can be removed from the Microphone and tested on its own. Which of the following best describes the above scenario?

Select one:

- a. Composition
- b. Dependency
- c. Association
- d. Aggregation

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Moodle

Online Exams

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Question 40

Not yet answered

Marked out of 1.00

Flag question

Which of the following statement is true about the diagram given below?

Select one:

- a. X is a part of Y.
- b. If an instance of X is deleted, all the contained instances of Y are also deleted.
- c. If an instance of Y is deleted, all the contained instances of X are also deleted.
- d. If an instance of X is deleted, the contained instances of Y are not affected.

esc

1 2 3 4 5 6 7

Q W E R T Y U

caps lock

A S D F G H

shift

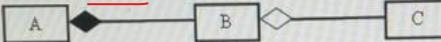
Moodle

Online Exams

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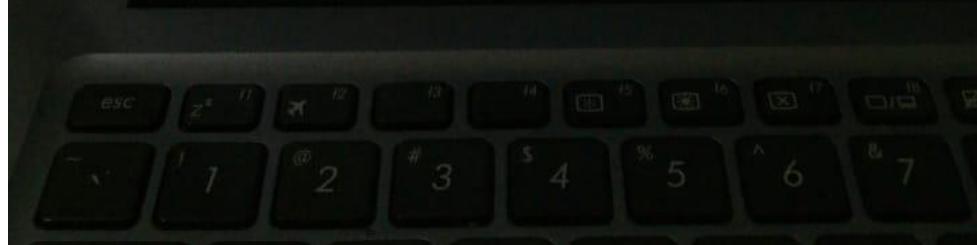
Question 34  
Not yet answered  
Marked out of 0.00  
Flag question

Select the **correct** statement for class A, class B and class C given below.



Select one:

a. Objects of class B cannot exist without an object of class A.  
 b. Objects of class C cannot exist without an object of class B.  
 c. Objects of class C cannot exist without an object of class A  
 d. Objects of class A cannot exist without an object of class B



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Online Exams

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SLITT

Question 55  
Not yet answered  
Marked out of 1.00  
Flag question

A Microphone class contains a Circuit class. The Circuit can be removed from the Microphone and tested on its own. What type of relationship describe the above scenario?

Select one:

- a. Composition
- b. Dependency
- c. Association
- d. Aggregation

Next page

The image shows a computer screen displaying an online exam from the Sri Lanka Institute of Information Technology (SLITT) using the Moodle platform. The exam title is "Online Exams". The question being viewed is Question 55, which is currently not answered and is worth 1.00 mark. The question text states: "A Microphone class contains a Circuit class. The Circuit can be removed from the Microphone and tested on its own. What type of relationship describe the above scenario?". Below the question, there is a "Select one:" instruction followed by four options labeled a, b, c, and d. Option d, "d. Aggregation", is selected and has a red underline underneath it. The background of the page is white, and the overall layout is clean and professional.

Online Exams

Sri Lanka Institute of Information Technology

on 32  
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ed out of  
ag question

Aggregation is

Select one:

- a. Expressing a part of a relationship and is stronger form of an association relationship.
- b. Expressing a part of a relationship and is weaker form of an association relationship.
- c. Expressing a "is-a relationship" and is stronger form of an association relationship.
- d. Expressing a "Is-a relationship" and is weaker form of an association relationship.



**Question 26**

Not yet answered

Marked out of  
1.00

Flag question

Which of the following best describes Inheritance concept in OOC?

Select one:

- a. Use the code already written once.
- b. Copy code already written
- c. Use already defined functions
- d. Use data and functions into derived segments.

Moodle

← → X C | ⓘ | A

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**Question 35**  
Not yet answered  
Marked out of 1.00  
 Flag question

Which of the following statement is TRUE about composition?

Select one:

- a. Compositions are typically implemented via normal member variables, or by pointers where the class manages the memory allocation and de-allocation.
- b. Exists when a member of a class has a part-of relationship with the class.
- c. The class manages the existence of the members.
- d. All of the above

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Question 41

Not yet answered

Marked out of 1.00

Flag question

A system is designed to assign topics for assignment groups. Each group consist of 4 or 5 group members. Developers of the system have identified Topic class, Group class and GroupMember class as the classes in this system. Select the most correct relationship for Group class and GroupMember class.

Select one:

a. Composition

b. Inheritance

c. Dependency

d. Association

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Quiz nav

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28

answered  
out of  
question

What is the main reason to have relationships between classes?

Select one:

a. To use the functionality of one class into other

b. To enhance the communication between classes

c. To increase code re-usability

d. All of the mentioned

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**Sri Lanka Institute of Information Technology**

According to the diagram shown below, what is the relationship between "Person" and "Vehicle" ?

The diagram illustrates three entities: Person, Vehicle, and Manufacturer. The Person entity has an attribute '+Name'. The Vehicle entity has attributes '+Model' and '+RegistrationNo'. The Manufacturer entity has attributes '+Name' and '+Country'. There are two associations: one between Person and Vehicle (multiplicity 1 at Person, 0..\* at Vehicle) and another between Vehicle and Manufacturer (multiplicity 1..\* at Vehicle, 1 at Manufacturer).

Select one:

- a. Aggregation
- b. Two way Association
- c. One way Association
- d. Dependency

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Question 52  
Not yet answered  
Marked out of 1.00  
 Flag question

Shape

```
graph TD; Shape[Shape] --> Rectangle[Rectangle]
```

getArea()

length  
width

Rectangle()  
Rectangle(int, int)  
getArea()

What is the relationship shown in the above diagram?

Select one:

- a. Abstraction
- b. Inheritance
- c. Dependency
- d. Encapsulation

**Question 26**

Not yet answered

Marked out of  
1.00

▼ Flag question

Which of the following best describes Inheritance concept in OOC?

Select one:

- a. Use the code already written once.
- b. Copy code already written
- c. Use already defined functions
- d. Use data and functions into derived segments.

Moodle

← → × C | ⓘ | A

### Online Exams

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Question 43

Not yet answered

Marked out of  
1.00

▼ Flag question

Consider the following multiplicity indicators and their meanings.

Indicator	Meaning
A. 0..1	Zero or one ✓
B. n..m	Between n and m ✓
C. 0..*	Zero or none ✗
D. 1..2	One or two ✓
E. 0..1, 4..7	Zero or one, or between 4 and 7 inclusive ✓

Which of the above are correct? ✓

Select one:

- a. A and C
- b. A, B and C
- c. A, B, C and D
- d. All of the above

Google

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Question 39  
Not yet answered  
Marked out of 0.00  
Flag question

Consider following statements.

A) Virtual functions support dynamic polymorphism ✓  
B) Virtual functions must be non-static member function of the class  
C) Constructor Functions cannot be virtual

Select one:

a. Only A is incorrect.  
 b. A and B are correct.  
 c. A, B and C are correct.  
 d. B and C are incorrect.

Not yet answered  
Marked out of 1.00  
[Flag question](#)

1.

```
class Student
{
private :
    int stdNo;
    char name[20];
    int marks[3];
public:
    student(int pStdNo, char *pName);
    void assignMarks();
    float calculateAvg();
    void print();
};
```

What is the correct way to declare a student object dynamically ?

Select one:

- a. Student std = new Student();
- b. Student \*std = new Student();
- c. Student \*std = new Student(1001, "A. Perera");
- d. Student \*std = gcnew Student(1001, "A. Perera");

[View Solution](#)

Quiz navigation

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[Finish attempt](#)

Sri Lanka Institute of Information Technology

Question 22  
Not yet answered  
Marked out of 1.00  
[Flag question](#)

C++ Inheritance relationship is

Select one:

- a. Association
- b. Is-A
- c. Has-A
- d. None

**Question 54**

Not yet answered

Marked out of  
1.00

Flag question

According to the given table, if you consider both equivalence partitioning and boundary value testing how many **minimum** test cases are required to test this program?

Mark	Grade
100 >= Mark >= 80	A
79 >= Mark >= 70	B
69 >= Mark >= 45	C
< 45	F

Select one:

- a. 13
- b. 17
- c. 9
- d. 12

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