

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

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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

0 1 2 3 4 5 6 7 8 %



## Online Exams

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**Question 1**

Not yet answered

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Flag question

Classes in the program may corresponds to

Select one:

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

**Question 1**

Not yet answered

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Flag question

## Online Exams

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**Question 1**

Not yet answered

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OOA and OOD uses

Select one:

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

Moodle

Online Exams

Sri Lanka Institute of Information Technology

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ing question

OOA and OOD uses

Select one:

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



## Online Exams

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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

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Question 9

With you answered  
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1.00

View question

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

Select one:

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

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

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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

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Classes in the program may corresponds to

Select one:

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

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Online Exams

Sri Lanka Institute of Information Technology

5  
answered  
3 out of  
ing 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.

Class Verb  
k



## Online Exams

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18

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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");

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Question 4

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

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

Select one:

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

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C++ Inheritance relationship is

Select one:

- a. Association
- b. Is-A
- c. C++
- d. None



## Online Exams

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Question 1

Not yet answered

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Classes in the program may corresponds to

Select one:

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

Question 7  
Not yet answered  
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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();`

Employee1 → printSal

The screenshot shows a web browser window titled "Online Exams" from the "Sri Lanka Institute of Information Technology". The main content area displays a multiple-choice question:

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

Sri Lanka Institute of Information Technology

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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

Question 6  
Not yet answered  
Marked out of 1.00  
Flag question

### Online Exams

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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. &

SLIT Online Exams

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Question 14  
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

Online Exams

Sri Lanka Institute of Information Technology

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

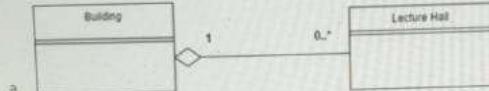
Online Exams

Sri Lanka Institute of Information Technology

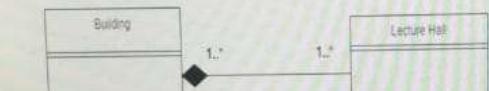
In a university, every building has at least one lecture hall. One lecture hall is exactly a part of a building.

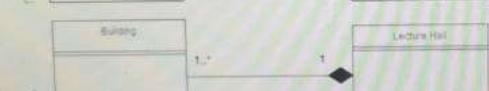
How can you model the given above scenario?

Select one:

a. 

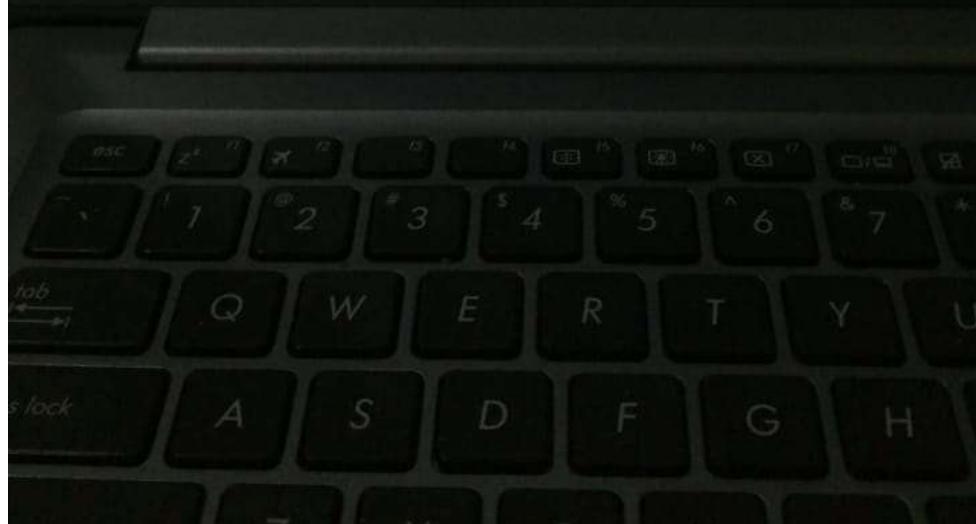
b. 

c. 

d. 

uni

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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



Classes in the program may corresponds to

Select one:

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

Moodle

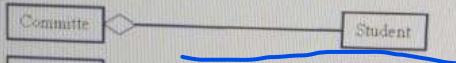
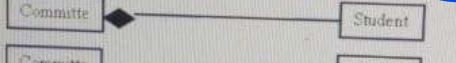
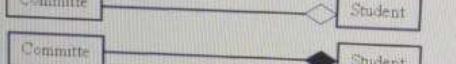
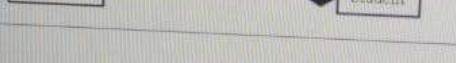
Online Exams

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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. 

The diagram in option b is highlighted with a blue line.

Keyboard



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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Sri Lanka Institute of Information Technology

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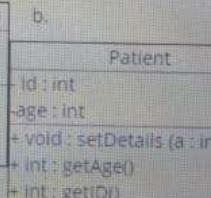
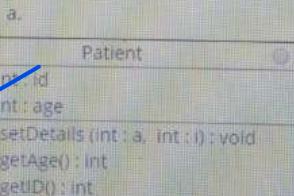
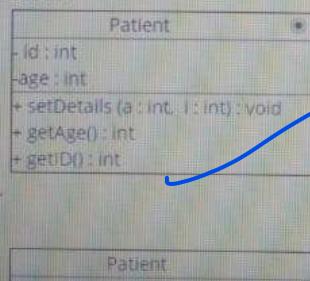
out of

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:





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

next page

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

**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 = new 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.

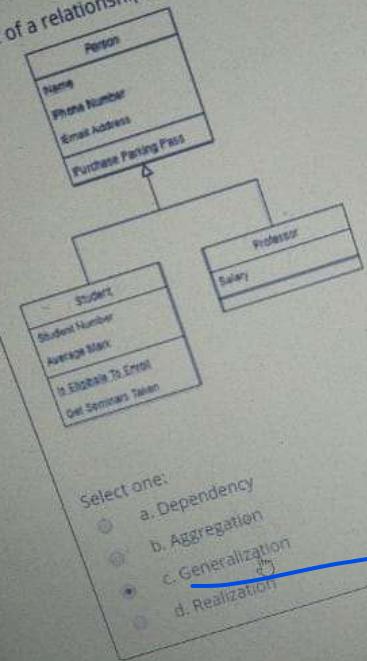
Select one:

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

# Online Exams

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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

Sri Lanka Institute of Information Tech

**Question 18**

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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Online Exams

Sri Lanka Institute of Information Technology

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

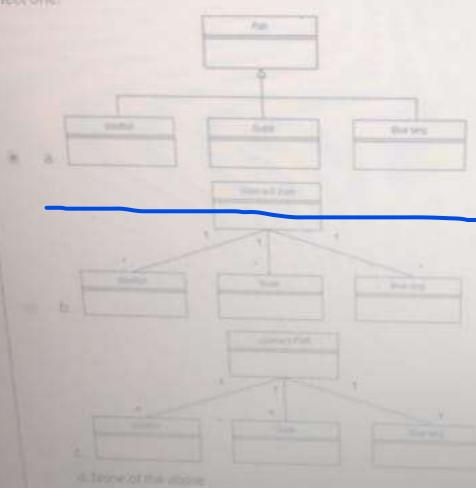
## Sri Lanka Institute of Information Technology

20  
Powered  
out of  
question

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

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

Select one:



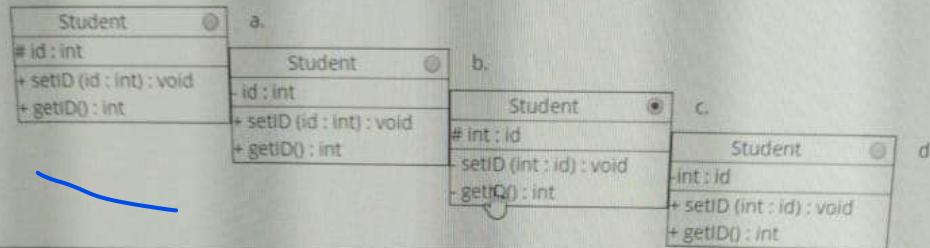
Outline of the above

# Online Exams

Sri Lanka Institute of Information Technology

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.

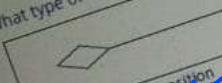
Select one:



## Online Exams

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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

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Online Exams

Sri Lanka Institute of Information Technology

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

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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

 Online Exams

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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

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Online Exams

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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();

A blue circle has been drawn around the circled option 'c.'

X C O A



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();



Moodle

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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Online Exams

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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.

Next page

Quiz navigation

1 2 3  
8 9 10  
15 16 17  
22 23 24  
29 30 31  
36 37 38  
43 44 45  
50 51 52 53

Online Exams

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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

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Sri Lanka Institute of Information Technology

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

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

Select one:

a. Aggregation  
 b. Association  
 c. Composition  
 d. Both Aggregation an Association

*(Handwritten mark: A large blue X is drawn across the entire question area.)*

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

**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

*(Handwritten mark: A large blue X is drawn across the entire question area.)*

# 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. 

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X C I A

## Online Exams

Sri Lanka Institute of Information Technology

Question 16

yet answered

Mark out of 1

Flag question

The way a relationship is built in Association is:

Select one:

- a. Through constructor
- b. Through the object creation
- c. Through destructor
- d. Through class names

hp

Moodle

Online Exams

Sri Lanka Institute of Information Technology

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

The image shows a laptop screen with an open Moodle-based online exam interface. The question is about inheritance in Object-Oriented Concepts (OOC). The correct answer, option 'd.', is underlined with a blue line. The laptop is an HP model, and the keyboard is visible at the bottom.

Moodle X C | Θ | A

Online Exams  
Sri Lanka Institute of Information Technology

Question 28  
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. 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.

A      B      C

The image shows a Moodle-based online exam interface. The question asks to select the incorrect statement about inheritance for three classes: A, B, and C. The options are: 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., and d. Class C Inherits the properties of class A. A blue curved arrow has been drawn over the first option, 'a.', to highlight it.

Question 37

Not yet answered  
Marked out of  
0.0

\* 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.

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

← → × C | ⌂ | E

 Online Exams  
Sri Lanka Institute of Information Technology

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 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. 

hp



## Online Exams

Sri Lanka Institute of Information Technology

Question 10

yet answered

Marked out of

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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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. *(X)*
- c. Objects of class C cannot exist without an object of class A. *(X)*
- d. Objects of class A cannot exist without an object of class B. *(X)*

Online Exams

Sri Lanka Institute of Information Technology

35 answered  
3 out of  
tag question

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

Select one:

- a. X is 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.

Video x

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## Online Exams

Sri Lanka Institute of Information Technology

Section 33  
0 of 10 questions answered  
Marked out of 100

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



SLIIT Online Exams

Sri Lanka Institute of Information Technology

16 answered out of question

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.

Next page

Quiz navigation

1	2	3	4
8	9	10	11
15	16	17	18
22	23	24	25
29	30	31	32
36	37	38	39
43	44	45	46
50	51	52	53
57	58	59	60

Moodle

Question 31

Not yet answered

Marked out of 1.00

Flag question

Online Exams

Sri Lanka Institute of Information Technology

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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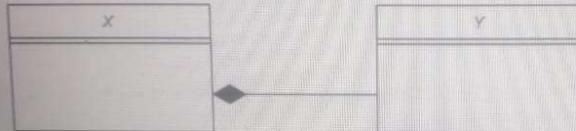
Question 31

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

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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.

Online Exams

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19 answered 1 out of 1 question

What is the main reason to have relationships between classes?

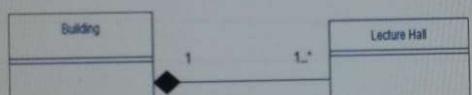
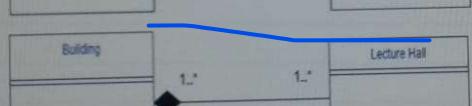
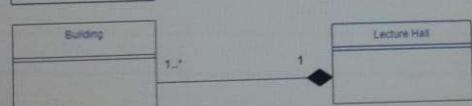
Select one:

- 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

**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





## Online Exams

Sri Lanka Institute of Information Technology

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

Select one:

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



## Online Exams

Sri Lanka Institute of Information Technology

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 numerator;  
        int denominator;

    public:

        Fraction(int numerator=0, int denominator=1);  
        Fraction(int numerator, int denominator) : numerator(numerator), 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 to  
            // reduce();

    }

Select one:

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

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Online Exams

Sri Lanka Institute of Information Technology

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

Next page

SLIIT

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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

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 41  
Not yet answered  
Marked out of 0.00  
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 describes the above scenario?

Select one:

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

The image shows a laptop screen with an online exam interface. The title 'Online Exams' and logo of Sri Lanka Institute of Information Technology (SLIIT) are visible at the top. The question is about class composition in Object-Oriented Programming (OOP). It asks which relationship allows a class to be removed from another and still function independently. Four options are provided: a. Composition, b. Dependency, c. Association, and d. Aggregation. Option d. Aggregation is selected and highlighted with a blue pen mark. The laptop keyboard is partially visible at the bottom.

Moodle



## Online Exams

Sri Lanka Institute of Information Technology

### 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.



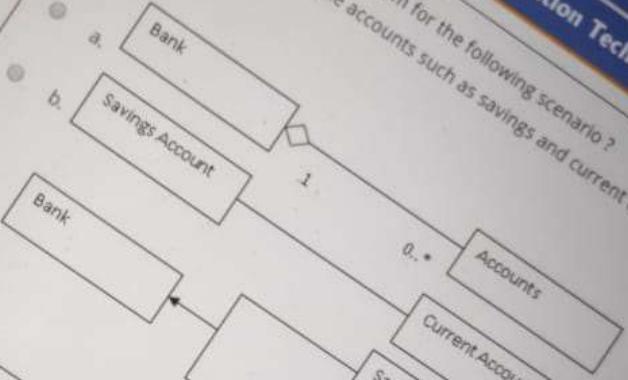
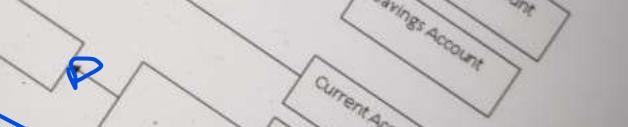
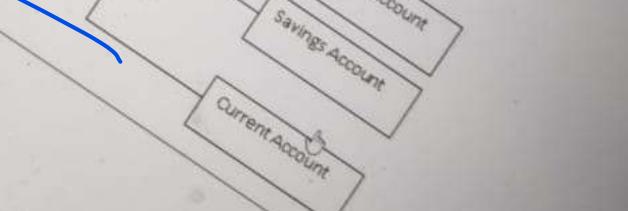
SLIIT Online Exams

Sri Lanka Institute of Information Technology

Question 60 Not yet answered Marked out of 1.00 Flag question

What is the correct UML diagram for the following scenario?  
"A bank maintains multiple accounts such as savings and current accounts."

Select one:

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

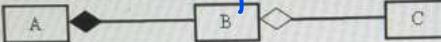
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Online Exams

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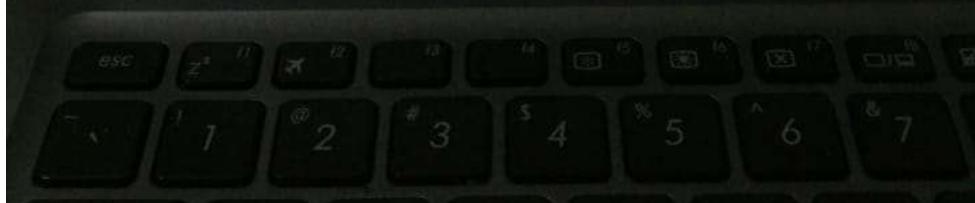
Question 34  
Not yet answered  
Marked out of 0.00  
Flag question

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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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 not yet 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: a. Composition, b. Dependency, c. Association, and d. Aggregation. The option "b. Dependency" is selected and has a blue underline underneath it, indicating it is the correct answer. In the top left corner of the slide, there is a small box containing the SLITT logo and the text "Not yet answered" and "Marked out of 1.00". In the bottom right corner of the slide, there is a blue button labeled "Next page". The overall background of the slide is white, and the text is black or dark blue.

Online Exams

Sri Lanka Institute of Information Technology

on 32  
et answered  
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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**

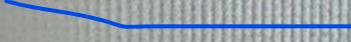
Not yet answered

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.
- 



# Online Exams

Sri Lanka Institute of Information Technology

9

Answered  
of  
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. Assumption
- c. Dependency
- d. Aggregation

Moodle

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Sri Lanka Institute of Information Technology

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

Online Exams

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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

Next page

Quiz nav

1	2	3
8	9	10
15	16	17
22	23	24
29	30	31
36	37	38

Online Exams

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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

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

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

The diagram illustrates a UML Class Diagram with three classes: Person, Vehicle, and Manufacturer. The Person class has an attribute '+Name'. The Vehicle class has attributes '+Model' and '+RegistrationNo'. The Manufacturer class 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).

```
classDiagram
    class Person {
        +Name
    }
    class Vehicle {
        +Model
        +RegistrationNo
    }
    class Manufacturer {
        +Name
        +Country
    }
    Person "1" -- "0..*" Vehicle
    Vehicle "1..*" -- "1" Manufacturer
```

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Question 52  
Not yet answered  
Marked out of 1.00

Shape

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

getArea()

length  
width

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

What is the relationship shown in the above diagram?

ANSWER

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 | ① | □

 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? *F*

Select one:

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



## Online Exams

Sri Lanka Institute of Information Technology

41  
Powered  
out of  
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



## Online Exams

Sri Lanka Institute of Information Technology

42

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



17  
answered  
out of  
question

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

Next page

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## Online Exams

Sri Lanka Institute of Information Technology

Question 39  
Not yet answered.  
Marked out of 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.

Moodle

Online Exams

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Question 64

Not yet answered

Marked out of 1.00

Flag 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  
lecture held.

Select one:

a.

b.

c. Both a and b are correct.

d. None of the Above

2 F3 F4 F5 F6 F7 F8

\$ 4 % 5

**Question 32**

Not yet answered

Marked out of  
1.00 Flag question

Which of the following may be components of system design?

Select one or more:

- a. Subsystems
- b. Activity diagram
- c. Use case scenarios
- d. Class diagram

**Question 20**

Not yet answered

Marked out of  
1.00 Flag questionWhich one of the following is **not** a step of requirement engineering?

Select one:

- a. Gathering
- b. Feasibility Study
- c. Documentation
- d. Analysis

Which of the following statement(s) is/are TRUE regarding Software Testing?

Select one or more:

- a. Software Testing is inadequate for showing the absence of defects.
- b. Software Testing is an effective way to show the presence of bugs
- c. Software Testing is only performed by QA Engineers.
- d. If Rigorous Testing is done and no defects are detected, we can say that the software is 100% bug free

Next

The entry criteria and exit criteria for Requirements phase in Waterfall model is,

Select one:

- a. Feasibility report, SRS
- b. SRS, Set of Unit tested Modules
- c. SRS, Design Documents
- d. Set of unit tested modules, SRS

Question 26  
Not yet answered  
Marked out of 1.00  
Flag question

A Feasibility Study.

Select one or more:

- a. Does not involve all the stake holders. X
- b. Looks at alternative solutions. ✓
- c. Is generally carried out after the software requirements specification. X
- d. Covers cost to benefit analysis. ✓

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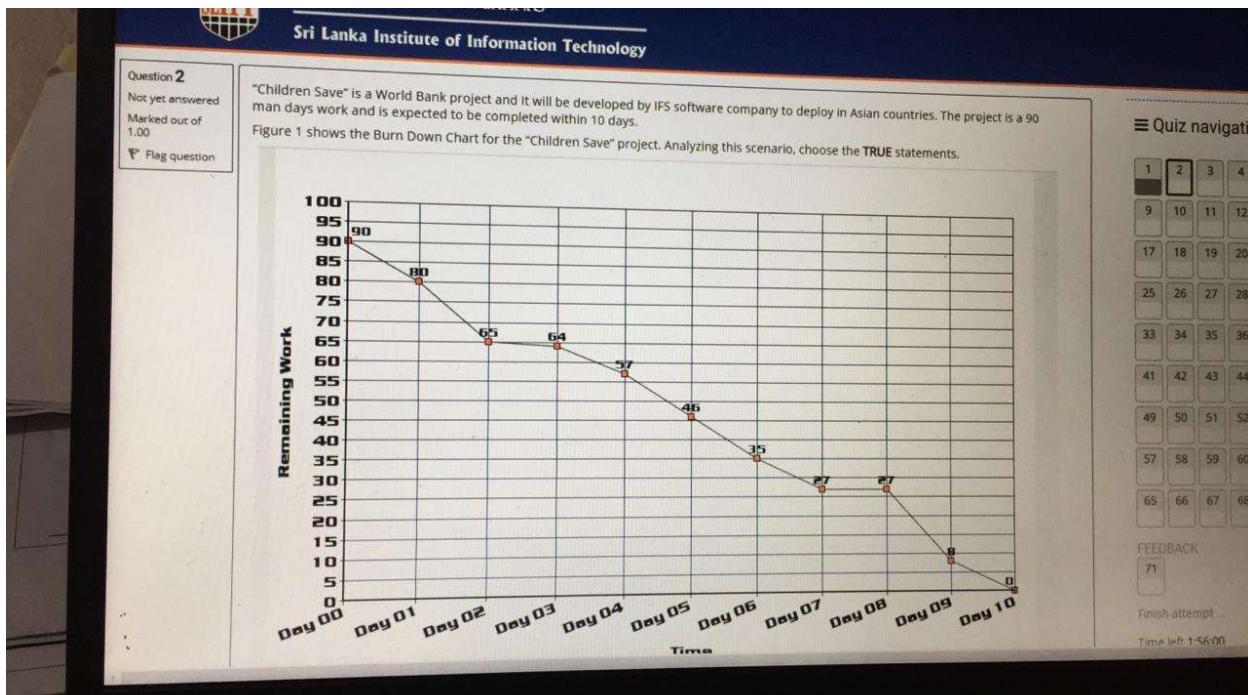
Question 14  
Not yet answered  
Marked out of 1.00  
Flag question

Which of the following statements explains **portability** as a non-functional requirement?

Select one:

- a. It is a degree to which software running on one platform can easily be converted to run on another platform.
- b. The ability of the user understanding the system.
- c. The ability of the system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended.
- d. It cannot be enhanced by using languages, Operating Systems and tools that are universally available and standardized.

Next page



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

Which of the following statement(s) are TRUE about integration testing?

Select one or more:

- a. It validates that the right system was built
- b. It is a predetermined combination of tests
- c. It ensures that data and control are passed properly between modules
- d. Testing is performed on a group of modules



Question 27

Not yet answered

Marked out of  
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Flag question

Which of the following statement(s) are TRUE?

Select one or more:

- a. In Agile model, test cases are designed after the development of the system
- b. In V-Model, software development and testing are executed in parallel
- c. In Spiral Model testing may be done multiple times
- d. V-Model emphasizes more on testing than Waterfall Model