

QuiZ cs504
Solved by 4funkar.quiz@gmail.com
&
Team! :)

The best way to conduct a requirements validation review is to
Select correct option:

- examine the system model for errors
- have the customer look over the requirements
- send them to the design team and see if they have any concerns
- use a checklist of questions to examine each requirement**

Data cannot flow from one external entity to other external entity because:
Select correct option:

- It will get corrupted
- It is not allowed in DFD
- An external entity has no mechanism to read or write
- Both are outside the context of the system**

Use case construction is a technique used for:
Select correct option:

- requirements determination.
- requirements structuring.**
- user interface design.
- database design.

The <<extend>> relationship between use cases would be used when behavior in the extending use case is _____ the extended use case

- always needed by**
- never needed by
- sometimes needed by
- None of the given options

In use case diagram, an ellipse signifies a(n):
Select correct option:

actor
class
use case

system boundary

An arrow in Data Flow Diagram (DFD) represents
Select correct option:

Direction of flow of data
Processing of data
External agent
Internal agent

system models are built to allow the system engineer to evaluate the system components in relationship to one another

Select correct option:

True
False

Process in Data Flow Diagram (DFD) represents
Select correct option:

Flow of data
Transformation of data
Storage of data
An external agent

The Use case diagram does not show which actors interact with each use case
Select correct option:

TRUE
FALSE

The condition that must be met before the use case can be invoked, is called:
Select correct option:

Pre-Condition

Post-Condition
Pre-Assertion
Post-Assertion

Data cannot flow from one external entity to other external entity because:
Select correct option:

It will get corrupted
It is not allowed in DFD
An external entity has no mechanism to read or write
Both are outside the context of the system

A prototype is not the real product but just a real looking mock-up of what would be eventually delivered
Select correct option:

TRUE
FALSE

Data Flow Model:
Select correct option:

Captures the flow of data in a system
Helps in developing an understanding of system's functionality
Describes data origination, transformations and consumption in a system
All of the given options

Use case construction is a technique used for:
Select correct option:

requirements determination.

requirements structuring.

user interface design.

database design.

The "extends" relationship is kind of a generalization specialization relationship.
Select correct option:

TRUE
FALSE

use of traceability tables helps to
Select correct option:

debug programs following the detection of run-time errors
determine the performance of algorithm implementations
identify, control, and track requirements changes
none of the given
3:41 PM

A Process in Data Flow Diagram (DFD) represents
Select correct option:

Flow of data
Transformation of data
Storage of data
An external agent

A context diagram is used
Select correct option:

as the first step in developing a detailed DFD of a system
in systems analysis of very complex systems

as an aid to system design

as an aid to programmers

In Data Flow Diagram (DFD), one data store can directly copy the data from another data store
Select correct option:

TRUE

FALSE

3:53 PM

The system model template contains which of the following elements

Select correct option:

input

output

output

all of the given

To construct a system model the engineer should consider one of the following restraining factors?

Select correct option:

assumptions and constraints

budget and expenses

data objects and operations

schedule and milestones

In data flow diagram (DFD), Create, Update, Delete and Read operations are normally called:

Select correct option:

CRUD operations

DURC operations

RUDC operations

CDUR operation

The "extends" relationship is kind of a generalization specialization relationship.

Select correct option:

TRUE

FALSE

Question # 1 of 10 (Start time: 04:00:12 PM) Total Marks: 1

The Use case diagram does not show which actors interact with each use case

Select correct option:

TRUE

FALSE

Question # 2 of 10 (Start time: 04:00:39 PM) Total Marks: 1

There are some types of requirements that can not be documented in the use cases.

Select correct option:

TRUE

FALSE

Question # 3 of 10 (Start time: 04:01:01 PM) Total Marks: 1

Arranging information in tabular form makes it easy to read, understand and comprehend as compared to streams of text.

Select correct option:

TRUE

FALSE

Quiz Start Time: 04:00 PM

Time Left 88

sec(s)

Question # 4 of 10 (Start time: 04:01:25 PM) Total Marks: 1

To construct a system model the engineer should consider one of the following restraining factors?

Select correct option:

assumptions and constraints

budget and expenses

data objects and operations

schedule and milestones

Question # 7 of 10 (Start time: 04:03:01 PM) Total Marks: 1

The best way to conduct a requirements validation review is to

Select correct option:

examine the system model for errors

have the customer look over the requirements

send them to the design team and see if they have any concerns

use a checklist of questions to examine each requirement

Question # 8 of 10 (Start time: 04:04:04 PM) Total Marks: 1

Data Flow diagram (DFD) does not capture control flow information, it just shows the flow of the data in a system.

Select correct option:

TRUE

FALSE

Question # 9 of 10 (Start time: 04:04:38 PM) Total Marks: 1

GUI stands for:

Select correct option:

Generic User Interface

Graphical User Interface

Generic User Interaction

Graphical User Interaction

Question # 10 of 10 (Start time: 04:05:00 PM) Total Marks: 1

System models are built to allow the system engineer to evaluate the system components in relationship to one another

Select correct option:

True

False

CS-504 Software Engineering-I

Quiz No.2 May, 07 2012

Solved By Fukar and his team

A class will be cohesive if:
Select correct option:

Class does not implement Complex interfaces
Class does not have Complex Methods

If most of the methods do not use most of the data members most of the time
if most of the methods use most of the data members most of the time.

___ is a technique in which we construct a model of an entity based upon its essential characteristics and ignore the inessential details.

Select correct option:

Inheritance

Polymorphism

Aggregation

Abstraction (correct answer)

The key objective(s) of OOD process should achieve the following:

Select correct option:

The class as far as possible should be Independent , but could be dependent on only a few classes.

Interaction between two classes should be explicit.

Class hierarchy should be built on specialization of higher class.

All of the given options

"A car is made up of a body, three or four wheels, a steering mechanism, a breaking mechanism, and a power-engine" The above statement is example of:

Select correct option:

Whole-Part relationship

Inheritance

Specialization

Generalization

A ___ relationship indicates that one entity is composed of one or more parts which are themselves instances of that or another entity.

Select correct option:

Inheritance

Whole-part

Generalization

Identify the TRUE statement(s)

Select correct option:

An attribute that may have a number of values should be replaced by a new class and an object connection

An attribute that varies over time, e.g., price of an item, should be replaced by an

additional class with an effective date and value

Replace "yes/no" type attributes with "status" type attributes for flexibility

All of given options

A structure is a manner of an organization which expresses a _____ strong organization within the problem domain.

Select correct option:

semantically

syntactically

graphically

none of the given

semantically

Whole Part Structure is also called _____

Select correct option:

Generalization

Aggregation

Specialization

Association

Specialization means:

Select correct option:

Calling the same method with object of child object

Hiding the data

Creating new subclasses from an existing class

None of given options

The intent of Object Oriented Analysis (OOA) is to define:

Select correct option:

All classes

Relationships among classes

Behavior of classes

All of the given options

In "Railway ticket reservation system" the roles such as enquiry , reservation and ticketing and cancellation are to be performed by the user called :-

Select correct option:

Passenger

System analyst

System developer

System designer

Defining the services of an object means:

Select correct option:

What it does?

What it knows?

Who knows it?

Whome it knows?

When a class gets physical existence in computer memory, it is called
Select correct option:

Parent Class
polymorphism
Static Object
Object

A class will be cohesive if:
Select correct option:

Class does not implement Complex interfaces
Class does not have Complex Methods
If most of the methods do not use most of the data members most of the time
if most of the methods use most of the data members most of the time.

A ___ relationship indicates that one entity is composed of one or more parts which are themselves instances of that or another entity.
Select correct option:

Inheritance
Whole-part
Generalization
Specialization

-----gives OO the ability to handle essential complexity better than action-oriented approach.
Select correct option:

Centralization
Decentralization
Decentralization and Centralization
none of the given

_____ is an extremely powerful technique for dealing with complexity.
Select correct option:

Aggregation
Abstraction
Inheritance
Association

The modules interacting with each other through message passing have _____ between them.
Select correct option:

low cohesion
high cohesion
low coupling
high coupling not sure

Example of Coupling

The modules that interact with each other through message passing have low coupling while those who interact with each other through variables that maintain information about the state have high coupling. The following diagram shows examples of two such systems

Identifying Whole-Part structures (Aggregations) means what are my _____
Select correct option:

Components

Attributes

Methods

Messages

___ is a technique in which we construct a model of an entity based upon its essential characteristics and ignore the inessential details.

Select correct option:

Inheritance

Polymorphism

Aggregation

Abstraction

-----gives OO the ability to handle essential complexity better than action-oriented approach.

Select correct option:

Centralization

Decentralization

Decentralization and Centralization

none of the given

In the case of action-oriented approach, data is decomposed according to:

Select correct option:

Object requirements

Functionality requirements

Corresponding domain model

Compatibility with object interface

Identify the TRUE statement(s)

Select correct option:

An attribute that may have a number of values should be replaced by a new class and an object connection

An attribute that varies over time, e.g., price of an item, should be replaced by an additional class with an effective date and value

Replace "yes/no" type attributes with "status" type attributes for flexibility

All of given options

Software objects interact and communicate with each other using _____ .

Select correct option:

Whole-Part relation

Generalization/Specialization relation

Messages

None of given options.

A cohesive Class is one which emphasizes on ___ unit of functionality

Select correct option:

Single

Multiple

Static

None of the given options

is an extremely powerful technique for dealing with complexity.

Select correct option:

Aggregation

Abstraction ... Correct Answer

Inheritance

Association

The key objective(s) of OOD process should achieve the following:

Select correct option:

The class as far as possible should be Independent , but could be dependent on only a few classes.

Interaction between two classes should be explicit.

Class hierarchy should be built on specialization of higher class.

All of the given options

In this case of _____, intra component linkages are stronger while inter component linkages are weak.

Select correct option:

high cohesion

low coupling

low cohesion

high coupling

Identifying Whole-Part structures (Aggregations) means what are my _____

Components

Attributes

methods

messages

In _____ relationship, a class shares the structure and behavior defined in another class.

Select correct option:

Aggregation

Composition

Inheritance

Uses

Aggregation

A "register" in "Point of sale system" is an example of:

Select correct option:

Actor

Participant

Tangible thing

Transaction

Identify the TRUE statement(s)

Select correct option:

An attribute that may have a number of values should be replaced by a new class and an object connection

An attribute that varies over time, e.g., price of an item, should be replaced by an additional class with an effective date and value

Replace "yes/no" type attributes with "status" type attributes for flexibility

All of given options

-----gives OO the ability to handle essential complexity better than action-oriented approach.

Select correct option:

Centralization

Decentralization

Decentralization and Centralization

none of the given

To help separate an object's external behavior from its implementation, the technique used is called _____.

Select correct option:

Generalization

Association

Composition

Abstraction

While establishing the services for an object, the following fundamental questions should be asked

Select correct option:

Why does the system need this object any way?

What useful questions can it answer?

What useful action can it perform?

All of the given options

A change becomes ----- because of close presence of data and functions

Select correct option:

Accessible

Global

Private

Localized

A class will be cohesive if:

Select correct option:

Class does not implement Complex interfaces

Class does not have Complex Methods

If most of the methods do not use most of the data members most of the time

if most of the methods use most of the data members most of the time.

_____ analysis educates the analyst on business domain complexity and shows a way to deal with it.

Select correct option:

Domain

Use Case

Object Collaboration

None of the given options

Strong cohesion implies that:

Select correct option:

All parts of a component have a close logical relationship with each other.

All parts of a component do not have a close logical relationship with each other.

Component is dynamic in nature

Component is static in nature

-----gives OO the ability to handle essential complexity better than action-oriented approach.

Select correct option:

Centralization

Decentralization

Decentralization and Centralization
none of the given

In Object Oriented Design, _____ layer contains the details that enable each object to communicate with its collaborators.

Select correct option:

subsystem
responsibility
message

object

Whole Part Structure is also called _____

Select correct option:

Generalization
Aggregation
Specialization
Association

Coupling is a measure of _____ of a module or component.

Select correct option:

Independence
Dependence
Aggregation
Composition

Class responsibilities are defined by _____.

Select correct option:

its attributes only
its collaborators
its operations only
both its attributes and operations

In "Point of Sale system", the term "Payment" represents

Select correct option:

Actor
Participant
Transaction
Container

The key objective(s) of OOD process should achieve the following:

Select correct option:

The class as far as possible should be Independent , but could be dependent on only a few classes.

Interaction between two classes should be explicit.

Class hierarchy should be built on specialization of higher class.

All of the given options

While establishing the services for an object, the following fundamental questions should be asked

Select correct option:

Why does the system need this object any way?

What useful questions can it answer?

What useful action can it perform?

All of the given options

The modules interacting with each other through message passing have _____ between them.

Select correct option:

low cohesion
high cohesion

low coupling
high coupling

Software objects interact and communicate with each other using _____ .
Select correct option:

Whole-Part relation
Generalization/Specialization relation
Messages
None of given options.

While establishing the services for an object, the following fundamental questions should be asked
Select correct option:

Why does the system need this object any way?
What useful questions can it answer?
What useful action can it perform?
All of the given options

A car is made up of a body, three or four wheels, a steering mechanism, a breaking mechanism, and a power-engine" The above statement is example of:

Select correct option:
Whole-Part relationship
Inheritance
Specialization
Generalization

A "register" in "Point of sale system" is an example of:
Select correct option:

Actor
Participant
Tangible thing
Transaction

When two components of a system are using the same global data area, they are related as
Select correct option:

Data Coupling
Content Coupling
Common Coupling
External Coupling

Which of the following is NOT among one of the four layers of the Object Oriented (OO) design pyramid
Select correct option:

The subsystem layer
The class and object layer
The Abstract layer -----Correct Answer
The message layer

The first step in any OOA process model is to
Select correct option:

build an object-relationship model.
define collaborations between objects.
elicit customer requirements.
select a representation language.

A ___ relationship indicates that one entity is composed of one or more parts which are themselves instances of that or another entity.

Select correct option:

Inheritance

Whole-part

Generalization

Specialization

is an extremely powerful technique for dealing with complexity.

Select correct option:

Aggregation

Abstraction

Inheritance

Association

A change becomes _____ because of close presence of data and functions

Select correct option:

Accessible

Global

Private

Localized

In "Railway ticket reservation system" the roles such as enquiry , reservation and ticketing and cancellation are to be performed by the user called :-

Select correct option:

Passenger

System analyst

System developer

System designer

Which of the following is NOT among one of the four layers of the Object Oriented (OO) design pyramid

Select correct option:

The subsystem layer

The class and object layer

The Abstract layer -----Correct Answer

The message layer

___ is a technique in which we construct a model of an entity based upon its essential characteristics and ignore the inessential details.

Select correct option:

Inheritance

Polymorphism

Aggregation

Abstraction

In _____ relationship, a class shares the structure and behavior defined in another class.

Select correct option:

Aggregation

Composition

Inheritance

Uses

Once you define "Employee" as an object for pay-roll application _____

Select correct option:

It can NOT be used for income tax, bonus, commission or any HR application.

It can be used for income tax, bonus, commission or any HR application.

It can only provide Read-Only properties

None of the given options

A class will be cohesive if:

Select correct option:

Class does not implement Complex interfaces

Class does not have Complex Methods

If most of the methods do not use most of the data members most of the time

if most of the methods use most of the data members most of the time.

4th?

In this case of _____, intra component linkages are stronger while inter component linkages are weak.

Select correct option:

high cohesion

low coupling

low cohesion

high coupling

In the case of action-oriented approach, data is decomposed according to:

Select correct option:

Object requirements

Functionality requirements

Corresponding domain model

Compatibility with object interface

-----gives OO the ability to handle essential complexity better than action-oriented approach.

Select correct option:

Centralization

Decentralization

Decentralization and Centralization

none of the given

In the case of _____ in a system, module boundaries are not well defined.

Select correct option:

low cohesion

high coupling

low coupling

high cohesion

A ___ relationship indicates that one entity is composed of one or more parts which are themselves instances of that or another entity.

Select correct option:

Inheritance

Whole-part

Generalization

Specialization

The three most important characteristics of an object are
Select correct option:

- Identity
- State
- Behavior
- All of the given

In Object Oriented Design, _____ layer contains the details that enable each object to communicate with its collaborators.

Select correct option:

- subsystem
- responsibility
- message
- object

_____ has become a standard notation for object oriented system modeling.

Select correct option:

- UML
- C++
- OCL (object Constraint Language)
- None of the given options

_____ analysis educates the analyst on business domain complexity and shows a way to deal with it.
Select correct option:

- Domain
- Use Case
- Object Collaboration
- None of the given options

_____ is a technique in which we construct a model of an entity based upon its essential characteristics and ignore the inessential details.

Select correct option:

- Inheritance
- Polymorphism
- Aggregation
- Abstraction

Quiz: 4

The modules interacting with each other through message passing have _____ between them.

Select correct option:

- low cohesion
- high cohesion
- low coupling
- high coupling

A change becomes _____ because of close presence of data and functions

Select correct option:

Accessible
Global
Private
Localized

Coupling is a measure of _____ of a module or component.
Select correct option:

Independence
Dependence
Aggregation
Composition
localized

Identify the TRUE statement(s)
Select correct option:

An attribute that may have a number of values should be replaced by a new class and an object connection

An attribute that varies over time, e.g., price of an item, should be replaced by an additional class with an effective date and value

Replace "yes/no" type attributes with "status" type attributes for flexibility

All of given options

The first step in any OOA process model is to
Select correct option:

build an object-relationship model.
define collaborations between objects.
elicit customer requirements.
select a representation language.

"System should maintain transaction log of every transaction" The above statement is an example of
Select correct option:

Functional requirement
Non-functional requirement
Pseudo requirement
None of the given options

The most important and critical stage in the object oriented design is the appropriate classification of _____.

Select correct option:

functions
methods
objects
relationships
4?
or 2?

When two components of a system are using the same global data area, they are related as
Select correct option:

Data Coupling
Content Coupling
Common Coupling
External Coupling

Class responsibilities are defined by _____.
Select correct option:

its attributes only
its collaborators
its operations only
both its attributes and operations

In "Railway ticket reservation system" the roles such as enquiry , reservation and ticketing and cancellation are to be performed by the user called :-

Select correct option:

Passenger
System analyst
System developer
System designer

___ is a technique in which we construct a model of an entity based upon its essential characteristics and ignore the inessential details.

Select correct option:

Inheritance
Polymorphism
Aggregation
Abstraction

"A car is made up of a body, three or four wheels, a steering mechanism, a breaking mechanism, and a power-engine" The above statement is example of:

Select correct option:

Whole-Part relationship

Inheritance
Specialization
Generalization

Identifying Whole-Part structures (Aggregations) means what are my _____

Select correct option:

Components
Attributes
Methods
Messages

A ___ relationship indicates that one entity is composed of one or more parts which are themselves instances of that or another entity.

Select correct option:

Inheritance
Whole-part
Generalization
Specialization

Identifying Whole-Part structures (Aggregations) means what are my _____

Select correct option:

Components

Attributes
Methods
Messages

Identifying Whole-Part structures (Aggregations) means what are my _____

Select correct option:

Components

Attributes

Methods
Messages

"A car is made up of a body, three or four wheels, a steering mechanism, a breaking mechanism, and a power-engine" The above statement is example of:
Select correct option:

Whole-Part relationship

Inheritance
Specialization
Generalization

Which of the following is NOT among one of the four layers of the Object Oriented (OO) design pyramid
Select correct option:

The subsystem layer

The class and object layer
The Abstract layer -----Correct Answer
The message layer

When a class gets physical existence in computer memory, it is called
Select correct option:

Parent Class
polymorphism
Static Object
Object----- Correct Answer

In this case of _____, intra component linkages are stronger while inter component linkages are weak.
Select correct option:

high cohesion
low coupling
low cohesion
high coupling

Consider the following piece of code: `public class Square extends Shape { // some code . }` The above code is an example of:
Select correct option:

Part-Whole relationship
Generalization/Specialization
Data Sharing
Data encapsulation

A structure is a manner of an organization which expresses a _____ strong organization within the problem domain.
Select correct option:

semantically
syntactically
graphically
none of the given

Consider the following piece of code: `public class Square extends Shape { // some code . }` The above code is an example of:

Select correct option:

- Part-Whole relationship
- Generalization/Specialization
- Data Sharing
- Data encapsulation**

A structure is a manner of an organization which expresses a _____ strong organization within the problem domain.

Select correct option:

- semantically**
- syntactically
- graphically
- none of the given

_____ has become a standard notation for object oriented system modeling.

Select correct option:

- UML**
- C++
- OCL (object Constraint Language)
- None of the given options

_____ analysis educates the analyst on business domain complexity and shows a way to deal with it.

Select correct option:

- Domain**
- Use Case
- Object Collaboration
- None of the given options

To help separate an object's external behavior from its implementation, the technique used is called _____.

Select correct option:

- Generalization
- Association**
- Composition
- Abstraction**---- Correct Answer

Identifying Whole-Part structures (Aggregations) means what are my _____

Select correct option:

- Components**
- Attributes
- Methods
- Messages

_____ has become a standard notation for object oriented system modeling.

Select correct option:

- UML**
- C++
- OCL (object Constraint Language)
- None of the given options

The most important and critical stage in the object oriented design is the appropriate classification of _____.

Select correct option:

functions

methods

objects

relationships

While establishing the services for an object, the following fundamental questions should be asked

Select correct option:

Why does the system need this object any way?

What useful questions can it answer?

What useful action can it perform?

All of the given options

To help separate an object's external behavior from its implementation, the technique used is called _____.

Select correct option:

Generalization

Association

Composition

Abstraction

The modules interacting with each other through message passing have _____ between them.

Select correct option:

low cohesion

high cohesion

low coupling

high coupling

Coupling is a measure of _____ of a module or component.

Select correct option:

Independence

Dependence

Aggregation

Composition

Which of the following is NOT among one of the four layers of the Object Oriented (OO) design pyramid

Select correct option:

The subsystem layer

The class and object layer

The Abstract layer -----Correct Answer

The message layer

A tangible entity in the real life is called

Select correct option:

Functions

Object

Class

None of the given

Whole Part Structure is also called _____

Select correct option:

Generalization

Aggregation

Specialization

Association

While establishing the services for an object, the following fundamental questions should be asked

Select correct option:

Why does the system need this object any way?

What useful questions can it answer?

What useful action can it perform?

All of the given options

Defining the services of an object means:

Select correct option:

What it does?

What it knows?

Who knows it?

Whome it knows?

-----gives OO the ability to handle essential complexity better than action-oriented approach.

Select correct option:

Centralization

Decentralization

Decentralization and Centralization

none of the given

Specialization means:

Select correct option:

Calling the same method with object of child object

Hiding the data

Creating new subclasses from an existing class

None of given options

Class responsibilities are defined by _____.

Select correct option:

its attributes only

its collaborators

its operations only

both its attributes and operations

In the case of _____ in a system, module boundaries are not well defined.

Select correct option:

low cohesion

high coupling

low coupling

high cohesion

When two components of a system are using the same global data area, they are related as

Select correct option:

Data Coupling

Content Coupling

Common Coupling

External Coupling

When a class gets physical existence in computer memory, it is called

Select correct option:

Parent Class

polymorphism

Static Object

Object

_____ is an extremely powerful technique for dealing with complexity.

Select correct option:

Aggregation

Abstraction

Inheritance

Association

In Object Oriented Design, _____ layer contains the details that enable each object to communicate with its collaborators.

Select correct option:

subsystem

responsibility

message

object

BC090402200: Muhammad Waqas

Question # 1 of 10 (Start time: 12:50:53 AM) Total Marks: 1

The key objective(s) of OOD process should achieve the following:

Select correct option:

The class as far as possible should be Independent, but could be dependent on only a few classes.

Interaction between two classes should be explicit.

Class hierarchy should be built on specialization of higher class.

All of the given options

Question # 2 of 10 (Start time: 12:52:12 AM) Total Marks: 1

A structure is a manner of an organization which expresses a _____ strong organization within the problem domain.

Select correct option:

semantically

syntactically

graphically

none of the given

Question # 3 of 10 (Start time: 12:52:59 AM) Total Marks: 1

A cohesive Class is one which emphasizes on ____ unit of functionality

Select correct option:

Single

Multiple

Static

None of the given options

Question # 4 of 10 (Start time: 12:54:21 AM) Total Marks: 1

Selecting Objects (in a domain) include:

Select correct option:

Selecting Actors

Selecting Participants

Select Places

All of the above

Question # 5 of 10 (Start time: 12:55:26 AM) Total Marks: 1

The intent of Object Oriented Analysis (OOA) is to define:

Select correct option:

All classes

Relationships among classes

Behavior of classes

All of the given options

Question # 6 of 10 (Start time: 12:56:40 AM) Total Marks: 1

Class responsibilities are defined by _____.

Select correct option:

its attributes only

its collaborators

its operations only

both its attributes and operations

Question # 7 of 10 (Start time: 12:57:18 AM) Total Marks: 1

Modules with high cohesion and low coupling can be treated and analyzed as:

Select correct option:

White Boxes

Black Boxes

Gray Boxes

None of the given options

Question # 8 of 10 (Start time: 12:58:22 AM) Total Marks: 1

A _____ relationship indicates that one entity is composed of one or more parts which are themselves instances of that or another entity.

Select correct option:

Inheritance

Whole-part

Generalization

Specialization



CS504-Software Engineering -1

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MC100401285

Moaaz.pk@gmail.com

MC100401285@gmail.com

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CS504-MIDTERM SOLVED MCQS WITH REFERENCES



Virtual University

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@gmail.com

Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

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Question No: 1 (Marks: 1) - Please choose one

By following modern system engineering practices simulation of reactive systems is no longer necessary

- ▶ True
- ▶ **False** [click here for detail](#)

Question No: 2 (Marks: 1) - Please choose one

The state transition diagram

- ▶ depicts relationships between data objects
- ▶ depicts functions that transform the data flow
- ▶ indicates how data are transformed by the system
- ▶ **indicates system reactions to external events** [click here for detail](#)

Question No: 3 (Marks: 1) - Please choose one

Control flow diagrams are

- ▶ **needed to model event driven systems.** [Click here for detail](#)
- ▶ required for all systems
- ▶ used in place of data flow diagrams
- ▶ useful for modeling user interfaces

Question No: 4 (Marks: 1) - Please choose one

A change becomes ----- because of close presence of data and functions

- ▶ **Localized** (page 81)
- ▶ Private
- ▶ Global
- ▶ Accessible

Question No: 5 (Marks: 1) - Please choose one

A complex System evolves from a

- ▶ **smaller system** page 83 [click here for detail](#)
- ▶ medium sysetem
- ▶ bigger system
- ▶ non of the given

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 6 (Marks: 1) - Please choose one

Coupling is a measure of -----of a module or component.

- ▶ **Independent** (Page 71)
- ▶ Dependent
- ▶ Closeness
- ▶ All of the given

Question No: 7 (Marks: 1) - Please choose one

Software Maintenance phase involves

- ▶ Debugging
- ▶ Adding new features
- ▶ making changes
- ▶ **all of the given** [click here for detail](#)

Question No: 8 (Marks: 1) - Please choose one

The hardest single part of building a software system is deciding precisely ----- to build.

- ▶ **what** (Page 17)
- ▶ How
- ▶ When
- ▶ Why

Question No: 9 (Marks: 1) - Please choose one

Interaction Diagrams depict the ----- Behavior of the system

- ▶ Static
- ▶ **Dynamic** (Page 106)
- ▶ Active
- ▶ Non of the above

Question No: 10 (Marks: 1) - Please choose one

**In Sequence Diagrams the time required by the receiver object to process the message is denoted by an---
-----**

- ▶ **Activation Box** (Page 108)
- ▶ Simple Box
- ▶ Arrow
- ▶ Non of the above

Question No: 11 (Marks: 1) - Please choose one

A poorly designed interface can cause a user to make catastrophic errors is one of the motivations for GUI.

- ▶ **True** (Page 62)
- ▶ False

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 12 (Marks: 1) - Please choose one
Identifying System Features include -----

- ▶ log important information
- ▶ conduct business
- ▶ analyze business results
- ▶ **all of the above** (Page 98)

Question No: 13 (Marks: 1) - Please choose one
Establishing responsibilities for objects includes

- ▶ Generalization Relationships
- ▶ Specialization Relationships
- ▶ **all of the above** (Page 86)
- ▶ identifying Association relationships

Question No: 14 (Marks: 1) - Please choose one
Which of the following is a fact finding method?

- ▶ Site visits
- ▶ **Prototyping**
- ▶ Study of similar systems
- ▶ All of given

Seven common fact-finding methods (Sampling, Research, Observation, Questionnaires, Interviews, Prototyping, Joint Requirements Planning) are introduced as a means to discover requirements.

Question No: 15 (Marks: 1) - Please choose one

Windows mobile is a popular mobile operating system which seen commonly on PDAs. Which of the following category pair(s) best describe(s) it?

- ▶ **Application software, embedded software**
- ▶ system software, web-based software
- ▶ application software, scientific software
- ▶ system software, embedded software

Question No: 16 (Marks: 1) - Please choose one
The Object Oriented approach

- ▶ **improves the reusability of codes.** (Page 83)
- ▶ makes objects less independent.
- ▶ increases testing time.
- ▶ complicates mapping of a system model to an implementation model.

The object-oriented approach improves the maintainability, reusability, and extensibility of the software [Click here for Detail](#)

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

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Question No: 1 (Marks: 1) - Please choose one

Most software continues to be custom built because

- ▶ Software is easier to build without using someone else's components.
- ▶ **Off the shelf software components are not commonly available** [Click here for detail](#)
- ▶ Component reuse is common in the software world
- ▶ Reusable components are too expensive to use

Question No: 2 (Marks: 1) - Please choose one

Which of the items listed below is not one of the software engineering layers?

- ▶ Tools
- ▶ Process
- ▶ **Manufacturing** [Click here for detail](#)
- ▶ Methods

Question No: 3 (Marks: 1) - Please choose one

Which of these people would not be likely to part of the FAST team?

- ▶ hardware and software engineers
- ▶ manufacturing representative
- ▶ marketing representatives
- ▶ **senior financial officers** **APRACTITIONER'S APPROACH (Page 305)**

Question No: 4 (Marks: 1) - Please choose one

An state transition can only occur when triggered by a(n)_____

- ▶ actor
- ▶ collaboration attempt
- ▶ **event**
- ▶ none of the given

The evolution of the system depends on a sequence of state transitions triggered by a set of coming events.

Question No: 5 (Marks: 1) - Please choose one

A change becomes ----- because of close presence of data and functions

- ▶ **Localized (page 81)**
- ▶ Private
- ▶ Global
- ▶ Accessible

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 6 (Marks: 1) - Please choose one

A process which does not take input is called

- ▶ **miracle process** **Miracle": Process has output, but no input** [Click here for detail](#)
- ▶ core process
- ▶ secondary process
- ▶ all of the above

Question No: 7 (Marks: 1) - Please choose one

Data Store notation in DFDs presents.

- ▶ Data input
- ▶ Data output
- ▶ **Data input and Data output** (Page 54)
- ▶ non of the given

Question No: 8 (Marks: 1) - Please choose one

Coupling is a measure of -----of a module or component.

- ▶ **Independent** (Page 71)
- ▶ Dependent
- ▶ Closeness
- ▶ All of the given

Question No: 9 (Marks: 1) - Please choose one

If a problem is identified and fixed at a -----stage in the software development process, it will cost much more than if it was fixed at and -----stage.

- ▶ eralier & lator
- ▶ after & before
- ▶ none of the above
- ▶ **later and earlier** (Page 17)

Question No: 10 (Marks: 1) - Please choose one

Once these requirements have been finalized, the ----- process starts.

- ▶ **Construction** (Page 18)
- ▶ Development
- ▶ Maintenance phase
- ▶ Construction and Development

Question No: 11 (Marks: 1) - Please choose one

Identifying Whole-Part structures (Aggregations) means what are my -----

- ▶ **Components** (Page 95)
- ▶ Structures
- ▶ Objecs
- ▶ Classes

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 12 (Marks: 1) - Please choose one

Data design actually begins during the creation of the analysis model, not the architectural model.

- ▶ True [Click here for detail](#)
- ▶ False

Question No: 13 (Marks: 1) - Please choose one

System Architecture is important to consider because it helps in making -----

- ▶ Mutual communication.
- ▶ Early design decisions.
- ▶ Reusable abstraction of a system.
- ▶ All of the above (Page 118)

Question No: 14 (Marks: 1) - Please choose one

Software architecture is "the ----- of the components of a program/system, their interrelationships, and principles and guidelines governing their design and evolution over time."

- ▶ combination
- ▶ collection
- ▶ structure (Page 117)
- ▶ unification

Question No: 15 (Marks: 1) - Please choose one

Cohesion is about making sure each component does _____ thing and does it well.

- ▶ three
- ▶ two
- ▶ infinite
- ▶ one [Click here for detail](#)

Question No: 16 (Marks: 1) - Please choose one

Following are some statements associated with data flow diagrams. Identify the correct statement from among them.

- ▶ DFDs are used to model complex interfaces.
- ▶ DFDs are used to represent only functional processing, data stores and data movements between functions. [DFD over flow charts\(Page 2\)](#)
- ▶ DFDs depict only processes which can be decomposed.
- ▶ DFDs do not show external data sources and external data sinks

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

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Question No: 1 (Marks: 1) - Please choose one

UML (unified modeling language) analysis modeling focuses on the _____ .

- ▶ behavioral model and environment model.
- ▶ behavioral model and implementation model.
- ▶ user model and environmental model
- ▶ **user model and structural model** A PRACTITIONER'S APPROACH (Page 604)

Question No: 2 (Marks: 1) - Please choose one

The data flow diagram must be augmented by descriptive text in order to describe the functional requirements for a software product.

- ▶ **True** [Click here for detail](#)
- ▶ False

Question No: 3 (Marks: 1) - Please choose one

It is not possible to use ordinary data flow diagrams to model the functional requirements of real-time systems.

- ▶ True
- ▶ **False** [Click here for detail](#)

Question No: 4 (Marks: 1) - Please choose one

An object or class may further be classified on the basis of

- ▶ Behavior Driven attributes
- ▶ Data Driven attributes
- ▶ Responsibility Driven attributes
- ▶ **All of the above** (Page 85)

Question No: 5 (Marks: 1) - Please choose one

A public Interface provides a way for _____ with other Classes.

- ▶ Communication
- ▶ **Accessibility** [Click here for detail](#)
- ▶ Reaching
- ▶ All of the above

Question No: 6 (Marks: 1) - Please choose one

DFD Notation contains

- ▶ Data Store
- ▶ Extenal Agents
- ▶ Processes
- ▶ **All of the given** (Page 51)

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 7 (Marks: 1) - Please choose one

A complex System evolves from a

- ▶ **smaller system (Page 69)**
- ▶ medium sysetem
- ▶ bigger system
- ▶ non of the given

Question No: 8 (Marks: 1) - Please choose one

Requirement engineering mainly deals with the ----- of the system

- ▶ **definition phase (Page 16)**
- ▶ development phase
- ▶ maintenance
- ▶ non of the above

Question No: 9 (Marks: 1) - Please choose one

Insufficient user involvement leads to ----- products.

- ▶ **unacceptable (Page 19)**
- ▶ ambigious
- ▶ dissatisfaction of customer to
- ▶ non of the above

Question No: 10 (Marks: 1) - Please choose one

Which one is not the purpose of Interaction Diagrams ?

- ▶ Model interactions between objects
- ▶ Assist in understanding how a system (a use case) actually works
- ▶ Identify responsibilities/operations and assign them to classes
- ▶ **Identify dependencies among objecs (Page 106)**

Question No: 11 (Marks: 1) - Please choose one

Collaboration diagrams have basically two types of components: objects and -----

- ▶ **messages (Page 111)**
- ▶ methods
- ▶ classes
- ▶ non of the above

Question No: 12 (Marks: 1) - Please choose one

The scope description establishes the -----between the system we are developing and everything else in the universe

- ▶ **Boundary (Page 31)**
- ▶ Balance
- ▶ Constraint
- ▶ None of the given

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 13 (Marks: 1) - Please choose one

Which one is not a type of messages which Sequence Diagrams Depict

- ▶ Synchronous
- ▶ Asynchronous
- ▶ Create
- ▶ Update (Page 108)

Question No: 14 (Marks: 1) - Please choose one

What is the most crucial non-functional requirement of a system to control radiation dosages that are emitted as treatment for cancer?

- ▶ Security
- ▶ Reliability
- ▶ Usability
- ▶ Accuracy (not sure)

Question No: 15 (Marks: 1) - Please choose one

Given below are some statements associated with data flow diagrams. Identify the correct statement from among them.

- ▶ Data flow is made use of to model what systems do.
- ▶ Flows of data can take place from a process to a sink.
- ▶ All processes have to be levelled or decomposed.
- ▶ Context diagram shows the major system processes. (Page 54)

Question No: 16 (Marks: 1) - Please choose one

What would be the most suitable architecture to develop a commercial web page to do business transactions over the internet?

- ▶ Client server model (p129)
- ▶ Island model
- ▶ RAD model
- ▶ Repository model

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Question No: 1 (Marks: 1) - Please choose one

The first step in any OOA process model is to_____

- ▶ build an object-relationship model (p90)
- ▶ define collaborations between objects
- ▶ elicit customer requirements
- ▶ select a representation language

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 2 (Marks: 1) - Please choose one

Dynamic components of an OOA model are _____

- ▶ not reusable
- ▶ **sensitive to timing and event processing**
- ▶ stable throughout the operational life of an application
- ▶ structural in nature

Dynamic components:

Focus on control and are sensitive to timing and event processing.

Dynamic view of Communication,

Dynamic view of Control and Time.

Question No: 3 (Marks: 1) - Please choose one

Events occur whenever a(n)_____

- ▶ **actor and the OO system exchange information** **APRACTITIONER'S APPROACH (Page 622)**
- ▶ class operation is invoked
- ▶ messages are passed between objects
- ▶ all of the given

Question No: 4 (Marks: 1) - Please choose one

By following modern system engineering practices simulation of reactive systems is no longer necessary

- ▶ True
- ▶ **False** [Click here for detail](#)

Question No: 5 (Marks: 1) - Please choose one

Information flow represents the manner in which data and control

- ▶ are related to one another.
- ▶ **changes as each moves through the system.** **APRACTITIONER'S APPROACH (Page 312)**
- ▶ will be implemented in the final design.
- ▶ none of the given

Question No: 6 (Marks: 1) - Please choose one

Which view should be consider first during software requirements analysis?

- ▶ actor view
- ▶ data view
- ▶ essential view
- ▶ **implementation view** **APRACTITIONER'S APPROACH (Page 316)**

Question No: 7 (Marks: 1) - Please choose one

State Transition Diagram is helpful in determining

- ▶ **Business Understanding (Page 52)**
- ▶ Process Flow
- ▶ Data store
- ▶ Non of the given

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 8 (Marks: 1) - Please choose one

A better Design has an objective achieve

- ▶ High Cohesion
- ▶ Low Cohesion
- ▶ Low Coupling
- ▶ **High cohesion and Low coupling** **APRACTITIONER'S APPROACH (Page 316)**

Question No: 9 (Marks: 1) - Please choose one

The process of defining attributes is called

- ▶ **What I know (Page 95)**
- ▶ Who know me
- ▶ Whom I know
- ▶ Non of the above

Question No: 10 (Marks: 1) - Please choose one

Which of the following is not an objective for building an analysis model?

- ▶ define set of software requirements
- ▶ describe customer requirements
- ▶ **develop an abbreviated solution for the problem** **APRACTITIONER'S APPROACH (Page 329)**
- ▶ establish basis for software design

Question No: 11 (Marks: 1) - Please choose one

The output of this design process is a description of the

- ▶ **Software Architecture (Page 115)**
- ▶ Software Code
- ▶ Software
- ▶ Non of the above

Question No: 12 (Marks: 1) - Please choose one

Which of these characteristics are true of a data warehouse, but not a typical database?

- ▶ business level orientation and large size
- ▶ **currency and correctness of information** [Click here for detail](#)
- ▶ integration and non volatility
- ▶ all of the given

Question No: 13 (Marks: 1) - Please choose one

Identifying System Features include -----

- ▶ log important information
- ▶ conduct business
- ▶ analyze business results
- ▶ **all of the above** **(Page 98)**

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 14 (Marks: 1) - Please choose one

The two main documents produced during this phase are Requirement Statement and Requirement Specification. They are also called Requirement Definition and -----

- ▶ **Functional Specification (Page 25)**
- ▶ Mathematical specification
- ▶ System Specification
- ▶ None of the given

Question No: 15 (Marks: 1) - Please choose one

Project ----- defines the concept and range of the proposed solution, and limitations identify certain capabilities that the product will not include

- ▶ **Scope (Page 30)**
- ▶ Agreement
- ▶ Plan
- ▶ None of the given

Question No: 16 (Marks: 1) - Please choose one

Windows mobile is a popular mobile operating system which seen commonly on PDAs. Which of the following category pair(s) best describe(s) it?

- ▶ **application software, embedded software (not sure)**
- ▶ system software, web-based software
- ▶ application software, scientific software
- ▶ system software, embedded software

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Question No: 1 (Marks: 1) - Please choose one

Control flow diagrams are.

- ▶ **Needed to model event driven systems. [Click here for detail](#)**
- ▶ Required for all systems.
- ▶ Used in place of data flow diagrams.
- ▶ Useful for modeling user interfaces.

Question No: 2(Marks: 1) - Please choose one

The Data dictionary contain description of each software.

- ▶ Configuration item.
- ▶ **Data object APRACTITIONER'S APPROACH (Page 356)**
- ▶ Diagram
- ▶ Notation

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

Question No: 3(Marks: 1) - Please choose one

A cohesion class is one which emphasize -----unit of----

- ▶ Single and multiple.
- ▶ Multiple and functionality
- ▶ Functional and single
- ▶ **Single and functional (Page 72)**

Question No: 4(Marks: 1) - Please choose one

Flow charts represent.

- ▶ **Sequence. (Page 50)**
- ▶ Random
- ▶ Parallel
- ▶ Non of above

Question No: 5(Marks: 1) - Please choose one

----- gives OO the ability to handle essential

- ▶ **Decentralization (Page 80)**
- ▶ Centralization
- ▶ Decentralization and Centralization
- ▶ Non of above

Question No: 6(Marks: 1) - Please choose one

In sequence Diagram events are organized in a-----time line

- ▶ **vertical (Page 106)**
- ▶ horizontal
- ▶ Vertical and Horizontal
- ▶ Non of above

Question No: 7(Marks: 1) - Please choose one

Asynchronous messages are denoted

- ▶ **Half Arrow (Page 109)**
- ▶ Simple Line
- ▶ Full Arrow
- ▶ Non of above

Question No: 8(Marks: 1) - Please choose one

Software crisis came in 1960 what is the main reason to for the crisis

- ▶ **Software development technique (Page 4)**
- ▶ Hardware

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**

- ▶ Software
- ▶ Non of above

Question No: 10 (Marks: 1) - Please choose one central role of the software requirement Document in entire development process is related to

- ▶ Project planning
- ▶ Project tracing
- ▶ Change control
- ▶ **All of above (Page 19)**

Question No: 11 (Marks: 1) - Please choose one The scope description establishes the ----- between the system we are developing and everything else in the universe. Project planning

- ▶ **Boundary (Page 31)**
- ▶ System
- ▶ limitation
- ▶ None of above

Question No: 12 (Marks: 1) - Please choose one which one is not the type of message which sequence diagram depict

- ▶ Synchronous
- ▶ asynchronous
- ▶ Create
- ▶ **Update (Page 108)**

Question No: 13 (Marks: 1) - Please choose one cohesion is about making sure each component does----- thing and does it well

- ▶ Three
- ▶ infinite
- ▶ **one APRACTITIONER'S APPROACH (Page 381)**
- ▶ two

Question No: 14 (Marks: 1) - Please choose one what is the most important software quality of a web based transaction

- ▶ efficiency
- ▶ Modularity
- ▶ **usability [click here for detail](#)**
- ▶ Security

Muhammad Moaaz Siddiq – MCS (2nd)

mc100401285@Gmail.com

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Studies (IEMS) Samundari**

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mc100401285@Gmail.com

**Campus:- Institute of E-Learning & Modern
Studies (IEMS) Samundari**