

# Professional Online Academy Vu Topper RM



## CS504-Software Engineering-I Update MCQ'S Mid Term



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**Question No:1**

**(Marks:1)**

**Vu-Topper RM**

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

- A. polymorphism
- B. Object**
- C. Static Object
- D. Parent Class

**Question No:2**

**(Marks:1)**

**Vu-Topper RM**

An object model of a system captures the \_\_\_\_\_ structure of a system.

- A. Static**
- B. Iterative
- C. Dynamic
- D. Hierarchical

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**Question No:3**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ diagram does not capture control flow information, it just shows the flow of the data in a system.

- A. Class
- B. Activity
- C. Data flow**
- D. Sequence

**Question No:4**

**(Marks:1)**

**Vu-Topper RM**

According to Caper Jones analysis of project activities, coding only has \_\_\_\_\_ affect part in software development.

- A. 36-40%
- B. 13-14%**
- C. 70-80%
- D. 50-60%

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**Question No:5**

**(Marks:1)**

**Vu-Topper RM**

A \_\_\_\_\_ is not the real product but just a real looking mock-up of what would be eventually delivered.

- A. Program
- B. Software
- C. Testcase

**D. Prototype**

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**Question No:6**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Functionality requirements**

**Page 15**

- B. Corresponding domain model
- C. Object requirements
- D. Compatibility with object interface

**Question No:7**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Object**

**Page 85**

- B. Methods
- C. Functions
- D. Relationships

**Question No:8**

**(Marks:1)**

**Vu-Topper RM**

In the case of \_\_\_\_\_ approach, data is decomposed according to functionality requirements.

- A. Object-oriented
- B. Event-oriented
- C. Process-oriented

**D. Action- oriented**

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**Question No:9**

**(Marks:1)**

**Vu-Topper RM**

OOD results in a design that achieves a number of different levels of

\_\_\_\_\_.

**A. Event**

**Page 89**

B. Process

C. Operation

D. Modularity

**Question No:10**

**(Marks:1)**

**Vu-Topper RM**

Consider the following piece of code:

```
public class Square extends Shape {  
// some code  
}
```

The above code is an example of

A. Part-Whole relationship

**B. Generalization/ Specialization**

C. Data Sharing

D. Data encapsulation

**Question No:11**

**(Marks:1)**

**Vu-Topper RM**

UML is a language for \_\_\_\_\_

**A. Modeling and Design**

**Google**

B. High-level Programming

C. Creating diagrams only

D. Low-level Programming

**Question No:12**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Whole -part**

**Google**

B. Inheritance

C. Generalization

D. Specialization

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**Question No:13** (Marks:1)

**Vu-Topper RM**

Selecting Objects (in a domain) include:

- A. Only Actors
- B. Only Participants
- C. Only Actors and Places
- D. Actors. Participants and Places**

**Question No:14** (Marks:1)

**Vu-Topper RM**

Which of the following is not supported by a maintainable design?

- A. Change
- B. Debugging
- C. Adding new features
- D. Higher maintenance cost**

Google

**Question No:15** (Marks:1)

**Vu-Topper RM**

Normally a System will be more easy to modify if its modules have:

- A. High coupling and low cohesion
- B. High coupling and high cohesion
- C. Low coupling and high cohesion**
- D. Low coupling and Low cohesion

**Question No:16** (Marks:1)

**Vu-Topper RM**

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

- A. The subsystem layers
- B. The class and object layer
- C. The abstract layer**
- D. The message layers

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**Question No:17** (Marks:1)

**Vu-Topper RM**

A use case represents:

- A. A class, its attributes and operations
- B. An operation's interface and signature

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**C. The role a user plays when interacting with the system**

**Page 32**

D. The system's functionality for a particular purpose

**Question No:18**

**(Marks:1)**

**Vu-Topper RM**

External entity may be:

A. Source of input data only

**B. Source of input data and destination of results**

C. Destination of results

D. Repository of data

**Question No:19**

**(Marks:1)**

**Vu-Topper RM**

The process of utilizing our knowledge of computer science in effective production of software systems is called \_\_\_\_\_.

A. Chemical Engineering

B. Electrical Engineering

C. Computer Engineering

**D. Software Engineering**

**Page 2**

**Question No:20**

**(Marks:1)**

**Vu-Topper RM**

Coupling is a measure of \_\_\_\_\_ of a module or component.

**A. Independence**

**Page 72**

B. Dependence

C. Aggregation

D. Composition

**Question No:21**

**(Marks:1)**

**Vu-Topper RM**

An arrow in Data Flow Diagram (DFD) represents

**A. Direction of flow of data**

B. Processing of data

C. External agent

D. Internal Agent

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**Question No:22**

**(Marks:1)**

**Vu-Topper RM**

In \_\_\_\_\_ the analyst determines all the sources of requirements and where do these requirements consume

A. Data flow analysis

**B. Source and sink analysis** **Page 40**

C. Down parsing

D. Up parsing

**Question No:23**

**(Marks:1)**

**Vu-Topper RM**

Data cannot flow from one external entity to other external entity because:

A. It will get corrupted

**B. It is not allowed in DFD** **Page 59**

C. An external entity has no mechanism to read or write

D. Both are outside the context of the system

**Question No:24**

**(Marks:1)**

**Vu-Topper RM**

In case of \_\_\_\_\_ approach, decomposition of a problem revolves around data.

A. Object-Oriented

**B. Action-Oriented** **Page 80**

C. Event-Oriented

D. Process-Oriented

**Question No:25**

**(Marks:1)**

**Vu-Topper RM**

Strong cohesion implies that:

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

B. All parts of a component don't have a close relationship with each other

C. Component is dynamic in nature

D. Component is static in nature

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**Question No:26**

**(Marks:1)**

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Requirement engineering focuses on \_\_\_\_\_ aspect of the software development process.

A. Both what and how

**B. What**

C. How

D. Why and how

**Question No:27**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ relationship is concerned with classes not with the class instantiates.

A. Association

**B. Inheritance**

C. Aggregation

D. Composition

**Question No:28**

**(Marks:1)**

**Vu-Topper RM**

The goal of \_\_\_\_\_ is to translate the customer's desire for a set of defined capabilities into a working product.

A. Electrical engineering

**B. Product engineering**

C. Hardware engineering

D. Mechanical engineering

**Question No:29**

**(Marks:1)**

**Vu-Topper RM**

"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:

**A. Whole-part relationship**

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B. Inheritance

C. Specialization

D. Generalization

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**Question No:30**

**(Marks:1)**

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

- A. Generalization
- B. Association
- C. Composition

**D. Abstraction**

**Page 86**

**Question No:31**

**(Marks:1)**

**Vu-Topper RM**

The first step in any OOA process model is to

**A. Build an object-relationship model.**

**Page 90**

- B. Define collaborations between objects.
- C. Elicit customer requirements
- D. Select a representation language

**Question No:32**

**(Marks:1)**

**Vu-Topper RM**

The \_\_\_\_\_ relationship is kind of a generalization specialization relationship.

- A. Bit-byte
- B. Uses
- C. Binary

**D. Extends**

**Question No:33**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Actor
- B. Participant

**C. Transaction**

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D. Container

**Question No:34**

**(Marks:1)**

**Vu-Topper RM**

The architecture components for product engineering are

**A. Data, hardware, software, people**

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- B. Data, documentation, hardware, software
- C. Data, hardware, software, procedures
- D. Documentation, hardware, people, procedures

**Question No:35** (Marks:1) **Vu-Topper RM**  
Prototyping is used when there is \_\_\_\_\_ regarding requirements.

- A. Uncertainty**
- B. Confirmation
- C. Conflict
- D. Consensus

**Question No:36** (Marks:1) **Vu-Topper RM**  
In \_\_\_\_\_ phase of software development, Requirement Analyst focuses on possible design of the proposed solution.

- A. Maintenance
- B. Development**
- C. Definition
- D. Vision

**Page 16**

**Question No:37** (Marks:1) **Vu-Topper RM**  
At which stage of software development loop, results are delivered?

- A. Problem definition
- B. Solution integration**
- C. Technical development
- D. Status quo

**Question No:38** (Marks:1) **Vu-Topper RM**  
A class will be cohesive if:

- A. Class does not implement complex interfaces
- B. Class does not have complex methods
- C. If most of the methods do not use most of the data members most of the time

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**D. If most of the methods use most of the data members most of the time.**

**Question No:39** (Marks:1) **Vu-Topper RM**

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

- A. Inheritance
- B. Polymorphism
- C. Aggregation

**D. Abstraction** **Page 79**

**Question No:40** (Marks:1) **Vu-Topper RM**

Which statement is not according to the software engineering principles? Software engineering is a(n) \_\_\_\_\_.

- A. Balancing act
- B. Disciplined approach

**C. Unsystematic approach** **Page 5**

D. Quantifiable approach

**Question No:41** (Marks:1) **Vu-Topper RM**

In order to determine the role and responsibilities of the identified objects, we need to consider which of the following step(s):

Who I am?

What I know?

Who I know?

What I do?

- A. A only
- B. A and b

**C. B ,c and D** **Page 102**

**Question No:42** (Marks:1) **Vu-Topper RM**

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

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Subsystem

A. Responsibility

**B. Message**

**Page 89**

C. Object

D. subsystem

**Question No:43**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Passenger**

B. System analyst

C. System designer

D. System developer

**Question No:44**

**(Marks:1)**

**Vu-Topper RM**

Requirement engineering mainly deals with the \_\_\_\_\_ of the system.

A. Vision phase

**B. Definition phase**

**Page 16**

C. Development phase

D. Maintenance phase

**Question No:45**

**(Marks:1)**

**Vu-Topper RM**

In UML based Object Oriented model of a system, a composition relation between two objects is shown by a \_\_\_\_\_ sign on the Whole side of a relation line.

A. An unfilled diamond

**B. A filled diamond**

C. A half diamond

D. A dot

**Question No:46**

**(Marks:1)**

**Vu-Topper RM**

Identify the true statement:

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**A. Normally object-oriented design is more maintainable than functional oriented.**

B. Software with functional oriented design does not fulfil non functional requirements.

C. Object oriented design can not implement “separation of concerns” strategy

D. Function oriented design does not lead to an efficient product

**Question No:47**

**(Marks:1)**

**Vu-Topper RM**

The system model template contains which of the following elements

A. Input

B. Out put

C. System Out

**D. Input / Output**

**Question No:48**

**(Marks:1)**

**Vu-Topper RM**

In Abbot’s Textual Analysis technique, different parts of speech are identified within the text of the specification and these parts are modeled using different \_\_\_\_\_ .

A. Event

B. Process

C. Operations

**D. Components**

**Page 90**

**Question No:49**

**(Marks:1)**

**Vu-Topper RM**

In the case of \_\_\_\_\_, intra component linkages are stronger while inter component linkages are weak.

A. High cohesion

**B. Low coupling**

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C. Low cohesion

D. High coupling

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**Question No:50**

**(Marks:1)**

**Vu-Topper RM**

A process in data flow diagram (DFD) represents

A. Flow of data

**B. Transformation of data**

C. Storage of data

D. An external agent

**Question No:51**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ are kind of umbrella activities that are used to smoothly and successfully perform the construction activities.

A. Design activities

**B. Management activities**

**Page 14**

C. Testing activities

D. Maintenance activities

**Question No:52**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Assumptions and constraints**

B. Budget and expenses

C. Data objects and operations

D. Schedule and milestones

**Question No:53**

**(Marks:1)**

**Vu-Topper RM**

A cohesive Class is one which emphasizes on \_\_\_\_\_ unit of functionality

A. Single

**B. Multiple**

**Page 76**

C. Static

D. None

**Question No:54**

**(Marks:1)**

**Vu-Topper RM**

The best way to conduct a requirements validation review is to

A. Examine the system model for errors

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- B. have the customer look over the requirements
- C. Send them to the design team and see if they have any concerns
- D. Use a checklist of the questions to examine each requirement**

**Question No:55** (Marks:1) **Vu-Topper RM**  
Which one of the following is the external quality of a software product?

- A. Correctness**
- B. Concision
- C. Cohesion
- D. Low coupling

**Question No:56** (Marks:1) **Vu-Topper RM**  
In Data Flow Diagram, the entity or system, outside the boundary of this system is called:

- A. Process
- B. Data flow
- C. External agent**
- D. Data store

**Question No:57** (Marks:1) **Vu-Topper RM**  
GUI stands for:

- A. Genaric user Interface
- B. Graphical user interface**
- C. Genaric user interaction
- D. Graphical user interaction

**Question No:58** (Marks:1) **Vu-Topper RM**  
Specialization means:

- A. Calling the same method with the object of child object
- B. Hiding the data
- C. Creating new subclasses for an existing class** Page 86
- D. None of the given options

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**Question No:59**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Actor
- B. Class
- C. Use case**
- D. System boundary

**Question No:60**

**(Marks:1)**

**Vu-Topper RM**

Software development is a step-by-step process, and in \_\_\_\_\_ phase of software development Business Objective of an organization gets cleared.

- A. Maintenance
- B. Development
- C. Definition
- D. Vision**

**Question No:61**

**(Marks:1)**

**Vu-Topper RM**

If you try to make software more user-friendly then the \_\_\_\_\_ may suffer.

- A. Reliability
- B. Software
- C. Efficiency**
- D. Cost

**Question No:62**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Aggregation
- B. Composition
- C. Inheritance**
- D. Uses

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**Question No:63**

**(Marks:1)**

**Vu-Topper RM**

In Object Oriented Design, combining the services offered by an object with the attributes they work on, results in:

Lower coupling and strong cohesion

Lower cohesion and strong coupling

Increased likelihood of reuse

Decrease the modularity of the system

A. A only

B. B and c only

**C. A and c only**

**Question No:64**

**(Marks:1)**

**Vu-Topper RM**

A change becomes \_\_\_\_\_ because of the close presence of data and functions

A. Accessible

B. Global

C. Private

**D. Localized**

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**Question No:65**

**(Marks:1)**

**Vu-Topper RM**

An external entity that interacts with a system is called a(n):

A. Use case

**B. Actor**

C. Stakeholder

D. Association

**Question No:66**

**(Marks:1)**

**Vu-Topper RM**

More powerful hardware resulted into the development of \_\_\_\_\_ powerful and \_\_\_\_\_ software.

A. Less, complex

**B. More, complex**

**Page 4**

C. More, simple

D. Less, simple

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Question No:67

(Marks:1)

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A context diagram is used:

- A. As a first step in developing a detailed DFD of a system**
- B. In systems analysis of very complex systems
- C. As an aid to system design
- D. As an aid to programmers

Question No:68

(Marks:1)

Vu-Topper RM

The system specification describes the:

- A. Function and behavior of a computer-based system
- B. Implementation of each allocated system element**
- C. Algorithmic detail and data structures
- D. Time required for system simulation

Question No:69

(Marks:1)

Vu-Topper RM

In object oriented approach, \_\_\_\_\_ are the people and organizations that take part in the system under consideration.

- A. Places
- B. Actors**
- C. Participants
- D. Tangible things

Question No:70

(Marks:1)

Vu-Topper RM

Software Design discusses \_\_\_\_\_ aspect of software development

- A. What
- B. How**
- C. Who
- D. When

Question No:71

(Marks:1)

Vu-Topper RM

\_\_\_\_\_ requirements cause frequent modifications in user interface.

- A. Functional

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B. Non-functional

**C. Unstable**

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D. User

**Question No:72**

**(Marks:1)**

**Vu-Topper RM**

A “register” in “Point of Sale system” is an example of:

A. Actor

B. Participant

**C. Tangible thing**

**Page 100**

D. Transaction

**Question No:73**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is a technique that can be used to reduce customer dissatisfaction at requirement stage.

A. Study of similar systems

B. Site visits

**C. Prototyping**

**Page 71**

D. All of the above

**Question No:74**

**(Marks:1)**

**Vu-Topper RM**

The Use case diagram shows that which \_\_\_\_\_ interact with each use case.

A. Use case

**B. Actor**

**Page 32**

C. Component

D. Relation

**Question No:75**

**(Marks:1)**

**Vu-Topper RM**

Transactions are the \_\_\_\_\_ that must be remembered through time.

**A. Events**

**Page 93**

B. Action

C. Triggers

D. Methods

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**Question No:76**

**(Marks:1)**

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As per Peter Coad's methodology, which of the following may not be a perfect candidate for being an object?

- A. Zone
- B. Recipient
- C. Garage

**D. Password**

**Page 93**

**Question No:77**

**(Marks:1)**

**Vu-Topper RM**

By leveling a DFD (adding more levels of abstraction) we mean

- A. Make its structure uniform
- B. Splitting it into different level
- C. Summarizing a DFD to specify only the essentials

**D. Expanding a process into one with more sub-processes giving more detail**

**Question No:78**

**(Marks:1)**

**Vu-Topper RM**

UML stands for \_\_\_\_\_

- A. United Method Language
- B. Usable Modeling Language
- C. Unified Modeling Language**
- D. Universal Modeling Language

**Page 92**

**Question No:79**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Pre-Assertion
- B. Post-Assertion
- C. Pre-condition**
- D. Post-Condition

**Google**

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**Question No:80**

**(Marks:1)**

**Vu-Topper RM**

An attribute that varies over time, e.g., price of an item, should be replaced by a/an \_\_\_\_\_ with an effective date and value

- A. Structure
- B. Interface

**C. Additional Class**      **Page 95**

- D. Additional Method/Function

**Question No:81**

**(Marks:1)**

**Vu-Topper RM**

A prototype is not the real product. It is rather just a real looking \_\_\_\_\_ of what would be eventually delivered and might not do anything useful.

- A. Ad-hoc
- B. Design

**C. Mock-up**      **Page 68**

- D. Structure

**Question No:82**

**(Marks:1)**

**Vu-Topper RM**

The context diagram is used as the top level abstraction in a \_\_\_\_\_ developed according to principles of structured analysis.

- A. Activity Diagram

**B. Dataflow diagram**      **Page 31**

- C. USE Case Diagram

- D. State Transition Diagram

**Question No:83**

**(Marks:1)**

**Vu-Topper RM**

Construction activities are directly related to software \_\_\_\_\_.

- A. Planning
- B. Management

**C. Development**      **Page 11**

- D. Quality Assurance

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**Question No:84**

**(Marks:1)**

**Vu-Topper RM**

Many of the problems encountered in Software development are attributed to shortcoming in \_\_\_\_\_.

- A. Testing
- B. Coding
- C. Maintenance

**D. Requirement gathering**

**Page 17**

**Question No:85**

**(Marks:1)**

**Vu-Topper RM**

In a top-down system analysis, a/an \_\_\_\_\_ is required to develop high level view of the system at first.

- A. Tester
- B. Analyst**
- C. Designer
- D. Developer

**Page 54**

**Question No:86**

**(Marks:1)**

**Vu-Topper RM**

Which one is not a part of Software Development phase?

- A. Construction
- B. Project Vision
- C. Scope**
- D. Definition

**Question No:87**

**(Marks:1)**

**Vu-Topper RM**

In software engineering paradigm, any engineering approach must be founded on organizational commitment to \_\_\_\_\_.

- A. Cost
- B. Quality**
- C. Scheduling
- D. Scheduling

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**Question No:88**

**(Marks:1)**

**Vu-Topper RM**

Which of the given component of software engineering framework demands Rational and Timely development of a software?

- A. Tools
- B. Methods
- C. Quality Focus**
- D. Processes

**Question No:89**

**(Marks:1)**

**Vu-Topper RM**

System \_\_\_\_\_ are built to allow the System Engineer to evaluate the system components in relationship to one another.

- A. Models**      **Page 42**
- B. Test cases
- C. Documents
- D. Requirements

**Question No:90**

**(Marks:1)**

**Vu-Topper RM**

The data on which the program operates is also considered as part of the \_\_\_\_\_.

- A. Software**      **Page 1**
- B. Logical Data
- C. Important Data
- D. Utility Software

**Question No:91**

**(Marks:1)**

**Vu-Topper RM**

Include and extend relationship is used in UML notation of a/an \_\_\_\_\_.

- A. Activity Diagram
- B. Use Case Model**
- C. Data Flow Diagram
- D. Entity Relationship Diagram

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**Question No:92**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Rows
- B. Tabular**
- C. Columns
- D. Paragraph

**Question No:93**

**(Marks:1)**

**Vu-Topper RM**

Which of the given component of software engineering framework provides different techniques that can be used to perform a particular task?

- A. Tools
- B. Methods** **Page 12**
- C. Processes
- D. Quality Focus

**Question No:94**

**(Marks:1)**

**Vu-Topper RM**

All the documents related to the software are also considered as part of the \_\_\_\_\_.

- A. Software**
- B. Logical Document
- C. Physical Document
- D. Relational Database

**Question No:95**

**(Marks:1)**

**Vu-Topper RM**

A software requirement document describes all the \_\_\_\_\_ provided by the system along with the constraints under which it must operate.

- A. Events
- B. Services** **Page 23**
- C. Processes
- D. Conditions

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**Question No:96**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ component of software engineering framework provides automated or semi-automated support in a software development.

**A. Tools**

B. Methods

C. Processes

D. Quality Focus

**Question No:97**

**(Marks:1)**

**Vu-Topper RM**

Use case construction is a technique used for:

A. Database design.

B. User interface design.

**C. Requirements structuring.**

D. Requirements determination.

**Question No:98**

**(Marks:1)**

**Vu-Topper RM**

In use case diagram, the scope of the system is defined by:

A. Actor

B. Entity

C. Extends

**D. System Boundary**

**Question No:99**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ structure represents the internal organization of the various data and control items.

**A. Data**

B. Value

C. Conceptual

D. Information

**Question No:100**

**(Marks:1)**

**Vu-Topper RM**

In Data Flow Diagram (DFD), data flow can:

A. Only terminate in an external entity

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B. Only originate from an external entity

**C. Originate and terminate in an external entity**

D. Either originate or terminate in an external entity but not both

**Question No:101**

**(Marks:1)**

**Vu-Topper RM**

Aynchronous messages :

**A. occurs in multi-threaded applications**

B. These block caller before response

C. are shown by dotted line

D. are implemented as operation call

**Question No:102**

**(Marks:1)**

**Vu-Topper RM**

Which one of these represents the Krutchen's 4+1 architectural view model?

A. Logical view, Dynamic view, Physical view, Development view, Use case view

B. Logical view, Process view, Physical view, Development view, Sequence view

C. Dynamic view, Process view, Physical view, Development view, Use case view

**D. Logical view, Process view, Physical view, Development view, Use case view**

**Question No:103**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is not part of software architecture?

A. databases

B. data design

**C. algorithm details**

D. program structure

**Question No:104**

**(Marks:1)**

**Vu-Topper RM**

Data-Centered Architectural Style is also called ....

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- A. Client Server model
- B. Reference model
- C. Sub system model
- D. Repository model**

**Question No:105** (Marks:1) **Vu-Topper RM**

Thin Client Model is one of the configurations of .....Model.

- A. Layered
- B. Data-centered
- C. Reference
- D. Client Server**

**Question No:106** (Marks:1) **Vu-Topper RM**

Logical view in Krutchen's 4+1 architectural view model captures\_\_\_\_\_.

- A. Concurrency and synchronization aspects of the design
- B. Mapping(s)of the software onto the hardware and reflects its distributed aspect
- C. Object model of the design**
- D. Static organization of the software in its development environment

**Question No:107** (Marks:1) **Vu-Topper RM**

Thin Client Model places a heavy processing load on.....

- A. Both Server and Network
- B. Only Server**
- C. Only Network
- D. Neither Server nor Network

**Question No:108** (Marks:1) **Vu-Topper RM**

Physical view in Krutchen's 4+1 architectural view model captures\_\_\_\_\_.

- A. Static organization of the software in its development environment
- B. Object model of the design

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C. Concurrency and synchronization aspects of the design

**D. Mapping(s) of the software onto the hardware and reflects its distributed aspect**

**Question No:109**

**(Marks:1)**

**Vu-Topper RM**

Sequence diagrams:

A. Provide parallel data flow

B. Provide Data Flow

**C. Provide a time-based view**

D. Provide the static behavior

**Question No:110**

**(Marks:1)**

**Vu-Topper RM**

Dynamic process model shows the process .....of the system.

**A. Linkage**

B. Components

C. Objects

D. Structure

**Question No:111**

**(Marks:1)**

**Vu-Topper RM**

Fat Client Model is one of the configurations of .....Model.

A. Reference

B. Layered

**C. Client Server**

D. Data-centered

**Question No:112**

**(Marks:1)**

**Vu-Topper RM**

A life line represents the object's life during the interaction in a sequence diagram while its notation is depicted by \_\_\_\_\_.

Options:

A. Curved Lines

B. Solid Lines

**C. Dotted Lines**

D. Full Arrow

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**Question No:113**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ architectural model is widely used in mainframe application.

- A. Client-Server Model
- B. Repository Model
- C. Layered Model**
- D. Filter Model

**Question No:114**

**(Marks:1)**

**Vu-Topper RM**

The clients and servers, in a client server environment, are connected through \_\_\_\_\_.

- A. Groupware
- B. Interface
- C. Middleware**
- D. Framework

**Question No:115**

**(Marks:1)**

**Vu-Topper RM**

Client server is a \_\_\_\_\_ system model.

- A. Integrated
- B. Distributed**
- C. Heterogeneous
- D. Homogeneous

**Question No:116**

**(Marks:1)**

**Vu-Topper RM**

Which of the following activities are included in the design process of a software architecture \_\_\_\_\_?

- A. Requirement Specifications of the system
- B. System Structuring and Modular Decomposition
- C. Architectural Analysis and Testing**
- D. System Development and Deployment

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**Question No:117**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is not a possible server in client server environment?

- A. Transaction Server
- B. File Server
- C. Database Server
- D. Time Server**

**Question No:118**

**(Marks:1)**

**Vu-Topper RM**

Issues like system performance, availability, scalability, and security are analyzed in \_\_\_\_\_.

- A. Code View
- B. Concurrency View
- C. Physical View**
- D. Logical View

**Question No:119**

**(Marks:1)**

**Vu-Topper RM**

Maintainability and Portability issues are discussed in \_\_\_\_\_.

- A. Logical View
- B. Functional View
- C. Physical View
- D. Code View**

**Question No:120**

**(Marks:1)**

**Vu-Topper RM**

Static structural model shows the major system.....

- A. Activities
- B. Components**
- C. Objectives
- D. Leaks

**Question No:121**

**(Marks:1)**

**Vu-Topper RM**

Performance, Security and maintainability are the types of \_\_\_\_\_ requirements.

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**A. Non-Functional**

- B. Domain
- C. Business
- D. Functional

**Question No:122**

**(Marks:1)**

**Vu-Topper RM**

In \_\_\_\_\_ phase of software development, Requirement Engineer focuses on realizing the Business Object of an under developed product.

**A. Vision** **Page 14**

- B. Definition
- C. Maintenance
- D. Development

**Question No:123**

**(Marks:1)**

**Vu-Topper RM**

In Data Flow Diagram (DFD), one data store cannot directly copy the data from another \_\_\_\_\_ .

- A. Flow
- B. Agent
- C. Process
- D. Data store**

**Question No:124**

**(Marks:1)**

**Vu-Topper RM**

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

- A. low cohesion
- B. high cohesion
- C. high coupling

**D. low coupling** **Page 74**

**Question No:125**

**(Marks:1)**

**Vu-Topper RM**

Which elements of business processing engineering are the responsibilities of the software engineer?

- A. Product planning

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- B. Business area analysis
- C. Business system design**
- D. Information strategy planning

**Question No:126** (Marks:1) **Vu-Topper RM**  
In object oriented design, \_\_\_\_\_ layer contains the data structures and algorithmic design for all attributes and operations for each object.

- A. Message
- B. Subsystem
- C. Responsibility**
- D. Class and Object

**Page 89**

**Question No:127** (Marks:1) **Vu-Topper RM**  
In sequence diagram, the solid lines depict:

- A. Objects (or classes)
- B. Messages being sent from one object to the other**
- C. Life-time of objects
- D. None of the given option

**Page 107**

**Question No:128** (Marks:1) **Vu-Topper RM**  
Architectural design process involves performing a number of activities which includes system structuring, control modeling and \_\_\_\_\_ .

- A. Testing
- B. System Analysis
- C. Modular Decomposition**
- D. Graphical User Interface

**Page 120**

**Question No:129** (Marks:1) **Vu-Topper RM**  
The criteria used to assess the quality of an architectural design should be based on system

- A. Data and control**
- B. Functionality
- C. Implementation details

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D. Accessibility and reliability

**Question No:130**

**(Marks:1)**

**Vu-Topper RM**

If Cat is derived from Mammal Class, and Mammal is derived from Animal Class, then:

- A. Cat will inherit Animal's functions and data
- B. Cat is allowed to access only the Mammal's Class
- C. Cat will not be able to access any class

**D. Cat will inherit Animal's functions and data**

**Question No:131**

**(Marks:1)**

**Vu-Topper RM**

The focus of sequence diagrams is:

- A. On static Model of system
- B. On object constraints
- C. On the flow of Control

**D. On objects/classes and messages exchanged among them**

**Page 106**

**Question No:132**

**(Marks:1)**

**Vu-Topper RM**

Different messages in sequence diagrams includes:

- A. Simple
- B. Notify
- C. Asynchronous

**D. Both Simple and Asynchronous**      **Page 108**

**Question No:133**

**(Marks:1)**

**Vu-Topper RM**

The \_\_\_\_\_ provides the software engineer with a view of the system as a whole.

- A. Process Model
- B. Business model
- C. Architectural Model**
- D. Requirements Model

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**Question No:134**

**(Marks:1)**

**Vu-Topper RM**

A \_\_\_\_\_ is a system component that provides services to other components but would not normally be considered as a separate system.

A. Message

B. Method

**C. Module**

**Page 121**

D. Relationship

**Question No:135**

**(Marks:1)**

**Vu-Topper RM**

In sequence diagram, the objects are organized in a \_\_\_\_\_ line and the events in a \_\_\_\_\_ time line.

**A. Horizontal, vertical**

**Google**

B. Horizontal, straight

C. Vertical, straight

D. Vertical, horizontal

**Question No:136**

**(Marks:1)**

**Vu-Topper RM**

The method of dividing and assigning different portions of a large system to different groups for construction is called \_\_\_\_\_ .

A. Work Basic Structure

B. Work Breakdown System

**C. Work Breakdown Structure**

**Page 119**

D. Working Boundary Structure

**Question No:137**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ pointed out the elegant conceptual integrity exhibited by layered organization of software systems, with the resulting gains in development and maintenance ease.

A. Barry Boehm

B. David Parnas

**C. Edsger Dijkstra**

**Page 115**

D. Shaw and Garlan

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**Question No:138**

**(Marks:1)**

**Vu-Topper RM**

Collaboration diagram can show \_\_\_\_\_.

- a) Binary messages
- b) Asynchronous messages
- c) Synchronous messages
- A. a only
- B. b only
- C. c only

**D. both b and c**

**Page 111**

**Question No:139**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is a role that each actor plays in the system under consideration.

- A. An act
- B. A participant**
- C. A function
- D. None of the given

**Question No:140**

**(Marks:1)**

**Vu-Topper RM**

Return values in synchronous messages are:

- A. Compulsory
- B. May not used when response is obvious**
- C. Not used at all
- D. Represented by solid lines

**Page 109**

**Question No:141**

**(Marks:1)**

**Vu-Topper RM**

In the architecture trade-off analysis method the architectural style should be described using the

- A. module view and process view
- B. data Flow view and process view
- C. data Flow view and module view

**D. data Flow view , module view and process view**

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**Question No:142**

**(Marks:1)**

**Vu-Topper RM**

In case of a \_\_\_\_\_ message, the called routine that handles the message is completed before the caller resumes execution.

- a. Synchronous
- b. Asynchronous
- c. Bidirectional

**A. A only**

**Page 108**

B. B only

C. C only

D. All of the given

**Question No:143**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Semantically**

B. Syntactically

C. Graphically

D. None of the given

**Question No:144**

**(Marks:1)**

**Vu-Topper RM**

To determine the architectural style or combination of styles that best fits the proposed system, requirements engineering is used to uncover

A. Algorithmic complexity

**B. Characteristics and constraints**

**Page 126**

C. Control and data

D. Design patterns

**Question No:145**

**(Marks:1)**

**Vu-Topper RM**

In sequence diagram, the boxes denote:

**A. Objects (or classes)**

**Page 106**

B. Messages, sent from one object to other

C. Life-time of objects

D. None of the given option

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**Question No:146**

**(Marks:1)**

**Vu-Topper RM**

An architectural style encompasses which of the following elements?

- A. Semantic Models and Constraints
- B. Set of Components and Constraints
- C. Set of Components and Semantic Models

**D. Constraints, Set of Components and Semantic Models Page 126**

**Question No:147**

**(Marks:1)**

**Vu-Topper RM**

A maintainable design is a design, which supports

- A. Change
- B. Debugging
- C. Adding new features

**D. All of the given**

**Question No:148**

**(Marks:1)**

**Vu-Topper RM**

Whole part structure is also called \_\_\_\_\_

- A. Generalization
- B. Aggregation**
- C. Specialization
- D. Association

**Question No:149**

**(Marks:1)**

**Vu-Topper RM**

According to Caper Jhones analysis of project activities, coding only has \_\_\_\_\_ affect part in system development.

- A. 13-14%**
- B. 36-40%
- C. 50-60%
- D. 70-80%

**Question No:150**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is concerned with decomposing a system into interacting sub-systems.

- A. System structuring

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B. Control Modelling

**C. Modular Decomposition**

**Page 121**

D. None of the given

**Question No:151**

**(Marks:1)**

**Vu-Topper RM**

In object-oriented design, \_\_\_\_\_ layer contains the data structures and algorithmic design for all attributes and operations for each object.

A. Subsystem

**B. Responsibility**

**Google**

C. Message

D. Object

**Question No:152**

**(Marks:1)**

**Vu-Topper RM**

Defining the services of an object means:

**A. What it does?**

**Page 96**

B. Who knows it?

C. What it knows?

D. Whome it knows?

**Question No:153**

**(Marks:1)**

**Vu-Topper RM**

Identifying system features include \_\_\_\_\_

A. Log important information

B. Conduct business

C. Analyze business results

**D. All of the above**

**Page 98**

**Question No:154**

**(Marks:1)**

**Vu-Topper RM**

The process of defining attributes is called \_\_\_\_\_

A. Who know me?

**B. What I know?**

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C. Whom I know?

D. All of the above

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**Question No:155**

**(Marks:1)**

**Vu-Topper RM**

The output of the design process is a description of the:

- A. Software architecture**
- B. Software Code
- C. Software
- D. All of the above

**Question No:156**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Data flow is made used of to model what systems do
- B. Flows of data can take place from a process to a sink
- C. Context diagrams shows the major system processes** **Page 94**
- D. All processes have to be labelled or decomposed

**Question No:157**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is real looking mock\_up of what would be eventually delivered and might not do anything useful.

- A. Study of similar system
- B. Site visits
- C. Prototyping** **Page 68**
- D. All of the above

**Question No:158**

**(Marks:1)**

**Vu-Topper RM**

A better design has an objective achieve

- A. High cohesion
- B. Low cohesion
- C. Low coupling
- D. High cohesion and low coupling** **Page 316**

**Question No:159**

**(Marks:1)**

**Vu-Topper RM**

In sequence diagrams the time required by the receiver object to process the message is denoted by an \_\_\_\_\_

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**A. Activation box**      **Page 108**

- B. Message line
- C. Life line
- D. All of the above

**Question No:160**      **(Marks:1)**      **Vu-Topper RM**

Insufficient user involvement leads to \_\_\_\_\_ products.

**A. Unacceptable**      **Page 19**

- B. Ambiguous
- C. Dissatisfaction of customer
- D. None of the above

**Question No:161**      **(Marks:1)**      **Vu-Topper RM**

Collaboration diagrams have basically two types of components: objects and \_\_\_\_\_

**A. Messages**      **Page 111**

- B. Method
- C. Classes
- D. None of the above

**Question No:162**      **(Marks:1)**      **Vu-Topper RM**

State transition diagram is helpful in determining \_\_\_\_\_.

- A. Data store
- B. Process flow
- C. Business understanding**      **Page 52**
- D. None of the above

**Question No:163**      **(Marks:1)**      **Vu-Topper RM**

In sequence diagram events are organized in a \_\_\_\_\_ time life line.

**A. Vertical**      **Page 106**

- B. Horizontal
- C. Both A and B
- D. All of the above

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**Question No:164**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Components Page 94**

B. Structures

C. Class

D. Object

**Question No:165**

**(Marks:1)**

**Vu-Topper RM**

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

A. Behavior driven attributes

B. Data driven attributes

C. Responsibility driven attributes

**D. All of the above Page 85**

**Question No:166**

**(Marks:1)**

**Vu-Topper RM**

DFD notation contains

A. Process

B. External agent

C. Data flow

**D. All of the above Page 51**

**Question No:167**

**(Marks:1)**

**Vu-Topper RM**

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

A. When

**B. What Page 17**

C. Why

D. All of the given

**Question No:168**

**(Marks:1)**

**Vu-Topper RM**

Interaction diagrams depict the \_\_\_\_\_ behaviour of the system.

A. Static

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B. Active

**C. Dynamic** Page 106

D. None of the given

**Question No:169**

**(Marks:1)**

**Vu-Topper RM**

The state transition diagram

- A. depicts relationships between data objects
- B. depicts functions that transform the data flow
- C. indicates how data are transformed by the system
- D. indicates system reactions to external events**

**Question No:170**

**(Marks:1)**

**Vu-Topper RM**

Control flow diagrams are

- A. Needed to model event driven systems.**
- B. required for all systems
- C. used in place of data flow diagrams
- D. useful for modelling user interfaces

**Question No:171**

**(Marks:1)**

**Vu-Topper RM**

A complex System evolves from a

- A. Smaller system** Page 83
- B. medium system
- C. bigger system
- D. non of the given

**Question No:172**

**(Marks:1)**

**Vu-Topper RM**

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

- A. True** Page 62
- B. False

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**Question No:173**

**(Marks:1)**

**Vu-Topper RM**

Establishing responsibilities for objects includes

- A. Generalization Relationships
- B. Specialization Relationships

**C. All of the above**

**Page 86**

**Question No:174**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is a fact finding method?

- A. Site visits
- B. Prototyping**
- C. Study of similar systems
- D. All of given

**Question No:175**

**(Marks:1)**

**Vu-Topper RM**

The Object-Oriented approach

- A. Improves the reusability of codes. Page 83**
- B. makes objects less independent.
- C. increases testing time.

**Question No:176**

**(Marks:1)**

**Vu-Topper RM**

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

- A. hardware and software engineers
- B. manufacturing representative
- C. marketing representatives

**D. Senior financial officers**

**Page 305**

**Question No:177**

**(Marks:1)**

**Vu-Topper RM**

System Architecture is important to consider because it helps in making

- A. Mutual communication.
- B. Early design decisions.
- C. Reusable abstraction of a system.

**D. All of the above**

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**Question No:178**

**(Marks:1)**

**Vu-Topper RM**

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

- A. combination
- B. collection
- C. structure**
- D. unification

**Page 117**

**Question No:179**

**(Marks:1)**

**Vu-Topper RM**

UML (unified modeling language) analysis modeling focuses on the

- A. behavioral model and environment model.
- B. behavioral model and implementation model.
- C. user model and environmental model
- D. user model and structural model**

**Page 604**

**Question No:180**

**(Marks:1)**

**Vu-Topper RM**

DFD Notation contains

- A. Data Store
- B. External Agents
- C. Processes
- D. All of the given**

**Page 51**

**Question No:181**

**(Marks:1)**

**Vu-Topper RM**

Which one is not the purpose of Interaction Diagrams ?

- A. Model interactions between objects
- B. Assist in understanding how a system (a use case) actually works
- C. Identify responsibilities/operations and assign them to classes
- D. Identify dependencies among objects**

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**Question No:182**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Boundary**

**Page 31**

B. Balance

C. Constraint

D. None of the given

**Question No:183**

**(Marks:1)**

**Vu-Topper RM**

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

A. Synchronous

B. Asynchronous

C. Create

**D. Update**

**Page 108**

**Question No:184**

**(Marks:1)**

**Vu-Topper RM**

What would be the most suitable architecture to develop a commercial

A. web page to do business

B. transactions over the internet?

**C. Client server model**

**Page 129**

D. Island model

**Question No:185**

**(Marks:1)**

**Vu-Topper RM**

Which view should be consider first during software requirements analysis?

A. actor view

B. data view

C. essential view

**D. implementation view**

**Page 316**

**Question No:186**

**(Marks:1)**

**Vu-Topper RM**

State Transition Diagram is helpful in determining

**A. Business Understanding**

**Page 52**

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- B. Process Flow
- C. Data store
- D. Non of the given

**Question No:187**

**(Marks:1)**

**Vu-Topper RM**

The output of this design process is a description of the

**A. Software Architecture** **Page 115**

- B. Software Code
- C. Software
- D. Non of the above

**Question No:188**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Scope** **Page 30**

- B. Agreement
- C. Plan
- D. None of the given

**Question No:189**

**(Marks:1)**

**Vu-Topper RM**

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

- A. Single and multiple.
- B. Multiple and functionality
- C. Functional and single

**D. Single and functional** **Page 72**

**Question No:190**

**(Marks:1)**

**Vu-Topper RM**

Flow charts represent.

**A. Sequence** **Page 50**

- B. Random
- C. Parallel
- D. None of above

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**Question No:191**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Decentralization**

**Page 80**

B. Centralization

C. Decentralization and Centralization

D. Non of above

**Question No:192**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Vertical**

**Page 106**

B. horizontal

C. Vertical and Horizontal

D. None of above

**Question No:193**

**(Marks:1)**

**Vu-Topper RM**

Asynchronous messages are denoted

**A. Half Arrow**

**Page 109**

B. Simple Line

C. Full Arrow

D. None of above

**Question No:194**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Software development technique**

**Page 4**

B. Hardware

C. Software

D. None of above

**Question No:195**

**(Marks:1)**

**Vu-Topper RM**

The project manager would need \_\_\_\_\_ document to monitor and track the progress of the project.

A. Design

B. Project

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C. Planning

**D. Requirements**

**Page 18**

**Question No:196**

**(Marks:1)**

**Vu-Topper RM**

Return values in Synchronous messages are represented by:

- A. A solid line
- B. Double line
- C. A solid line with label

**D. A dotted line with label**

**Google**

**Question No:197**

**(Marks:1)**

**Vu-Topper RM**

Software architecture must address \_\_\_\_\_ requirements of a software system.

- A. Functional
- B. Non-functional
- C. User Interface Requirements

**D. Both functional and non-functional.**

**Question No:198**

**(Marks:1)**

**Vu-Topper RM**

In multiprocessing applications, different execution threads may pass information to one another by sending \_\_\_\_\_ to each other.

- A. Interrupt calls
- B. Synchronous messages
- C. Asynchronous messages**
- D. System calls

**Question No:199**

**(Marks:1)**

**Vu-Topper RM**

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

- A. White boxes
- B. black boxes**
- C. grey boxes

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D. none of these

**Question No:200**

**(Marks:1)**

**Vu-Topper RM**

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

**A. Domain**

B. Use case

C. Object collaboration

D. None of the given options

**Question No:201**

**(Marks:1)**

**Vu-Topper RM**

A DFD is normally levelled (adding more levels of abstraction) as

A. It is a good idea in design

B. It is recommended by many experts

C. It is easy to do it

**D. It is easier to read and understand a number of smaller DFDs than one large DFD**

**Question No:202**

**(Marks:1)**

**Vu-Topper RM**

Regarding data flow model, which of the following statement(s) is true:

A. It captures the transformation of data between processes/functions of a system

**B. Processes on a data flow can operate in parallel**

C. Only those processes are represented which we need to automate

D. All of the given option

**Question No:203**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ requirements are often called product features.

**A. Functional**

B. Non-functional

C. Developer

D. User

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**Question No:204**

**(Marks:1)**

**Vu-Topper RM**

The \_\_\_\_\_ relationship is a kind of a generalization specialization relationship:

- A. Bit-Byte
- B. Uses
- C. Binary
- D. Extends**

**Question No:205**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is one of the techniques to document domain knowledge

- A. State transition diagram**
- B. Feasibility matrix
- C. System matrix
- D. None of the given options

**Question No:206**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ diagrams does not capture control flow information, it just shows the flow of data in a system.

- A. Sequence
- B. Data Flow**
- C. Activity
- D. Class

**Question No:207**

**(Marks:1)**

**Vu-Topper RM**

In the functional design, the structure of the system resolves around:

- A. Objects
- B. Properties
- C. Functions**
- D. All of the given options

**Question No:208**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ has become a standard notation for object oriented system modeling.

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**A. UML**

B. C++

C. OCL(Object Constraint Language)

D. None of the given option

**Question No:209**

**(Marks:1)**

**Vu-Topper RM**

Any Engineering approach must be founded on organizational commitment to \_\_\_\_\_.

A. Cost

B. Scheduling

**C. Quality**

D. Performance

**Question No:210**

**(Marks:1)**

**Vu-Topper RM**

How can we implement generalization in Object Oriented programming languages?

A. Abstraction

**B. Inheritance**

C. Polymorphism

D. Encapsulation

**Question No:211**

**(Marks:1)**

**Vu-Topper RM**

A useful technique for evaluating the overall complexity of a proposed architecture is to look at the component's

A. Size and cost

B. Function points

C. Number and size of components

**D. Flow dependencies and has ring dependencies**

**Question No:212**

**(Marks:1)**

**Vu-Topper RM**

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

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- A. DURC operations
- B. CRUD operations**
- C. RUDC operations
- D. CDUR operations

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Question No:213

(Marks:1)

Vu-Topper RM

There are \_\_\_\_\_ most important characteristics of an object.

- A. One
- B. Two
- C. Four
- D. Three**

Question No:214

(Marks:1)

Vu-Topper RM

Which of the following is not the object model principle?

- A. Exposure**
- B. Abstraction
- C. Encapsulation
- D. Hierarchy or inheritance

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Question No:215

(Marks:1)

Vu-Topper RM

"System should maintain transaction log of every transaction" The above statement is an example of

- A. Pseudo requirement
- B. Functional requirement**
- C. Non-functional requirement
- D. Both Non-functional and Pseudo requirements

Question No:216

(Marks:1)

Vu-Topper RM

While establishing the services for an object, the goal is to keep data and action together for \_\_\_\_\_ coupling and \_\_\_\_\_ cohesion.

- A. Higher, Lower
- B. Lower, Lower

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- C. Lower, Higher
- D. Higher, Higher

**Question No:217** (Marks:1) **Vu-Topper RM**  
\_\_\_\_\_ of the total cost of the software development is spent on maintenance.

- A. Six third
- B. Two third**
- C. Four third
- D. Eight third

**Question No:218** (Marks:1) **Vu-Topper RM**  
\_\_\_\_\_ is not the part of Peter Coad methodology.

- A. Select places
- B. Select actors
- C. Select actions**
- D. Select participants

**Question No:219** (Marks:1) **Vu-Topper RM**  
Which of the following sentence is true regarding user interface design?

- A. The simpler the interface, the efficient is the system**
- B. The higher the response time, the better is the interface
- C. Command-line interfaces are faster for some tasks which the user needs to perform
- D. GUI interfaces are good for all tasks which a user needs to perform at an interface.

**Question No:220** (Marks:1) **Vu-Topper RM**  
In the case of \_\_\_\_\_ in a system, module boundaries are not well defined.

- A. low coupling
- B. high cohesion
- C. high coupling**

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D. low cohesion

**Question No:221**

**(Marks:1)**

**Vu-Topper RM**

In UML Object Model Notation \_\_\_\_\_

- A. Mathematical problems are visualized
- B. C++ language-specific programs are constructed
- C. Relationships among classes and sub-classes are expressed**

**Page 92**

D. Graphs and tables are used to explain Software Engineering principles

**Question No:222**

**(Marks:1)**

**Vu-Topper RM**

From the following which is/are not the example(s) of illegal data flow in Data Flow Diagram (DFD)

- A. External Agent updating information in a DataStore
- B. External Agent accessing information from a Data Store
- C. External Agents directly communicating with each other
- D. There must be an intermediate process which should transform data received from one external entity and then send the transformed data to the other external entity**

**Question No:223**

**(Marks:1)**

**Vu-Topper RM**

The modules that interact with each other through message passing have \_\_\_\_\_.

- A. Low Cohesion
- B. High Cohesion
- C. High Coupling

**D. Low Coupling**

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**Question No:224**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is an extremely powerful technique for dealing with complexity.

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- A. Association
- B. Inheritance
- C. Abstraction**
- D. Aggregation

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**Question No:225** (Marks:1) **Vu-Topper RM**

In Abbot's Textual Analysis technique, the proper noun (e.g. Mehdi Hassan) represents

- A. Class
- B. Instance**
- C. Inheritance
- D. Aggregation

Page 90

**Question No:226** (Marks:1) **Vu-Topper RM**

A tangible entity in the real life is called \_\_\_\_\_.

- A. Class
- B. Object**
- C. Function
- D. Sub-Class

Page 85

**Question No:227** (Marks:1) **Vu-Topper RM**

In UML based Object Oriented model of a system, the association relation between two objects is depicted by \_\_\_\_\_.

- A. A straight line**
- B. An arrowhead sign on one side of the line
- C. A filled diamond sign on the Whole side of the line
- D. An unfilled diamond sign on the Whole side of the line

**Question No:228** (Marks:1) **Vu-Topper RM**

Software Engineering is the combination of tools, techniques and \_\_\_\_\_.

- A. Design
- B. Testing

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**Question No:229** (Marks:1) **Vu-Topper RM**  
In UML based Object Oriented model of a system, the inheritance relation between two classes is shown by a \_\_\_\_\_ sign towards the super-class side on the association line between the two.

- A. An arrowhead** Page 92  
B. A filled diamond  
C. A half arrowhead  
D. An unfilled diamond

**Question No:230** (Marks:1) **Vu-Topper RM**  
When two components of a system are using the same global data area, they are related as

- A. Data Coupling  
B. Content Coupling  
C. External Coupling  
**D. Common Coupling** Google

**Question No:231** (Marks:1) **Vu-Topper RM**  
A context diagram:

- A. is a detailed description of a system**  
B. describes detailed design of a system  
C. is not used in drawing a detailed DFD  
D. is a DFD which gives an overview of the system

**Question No:232** (Marks:1) **Vu-Topper RM**  
In UML based Object Oriented model of a system, the diamond sign is used to depict \_\_\_\_\_ relations between two objects/classes.

- A. Inheritance and Association  
B. Aggregation and Association  
**C. Composition and Aggregation**

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D. Composition, Aggregation and Association

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