

This set of Software Design Multiple Choice Questions & Answers (MCQs) focuses on "UML Class and Object Diagrams"

1. What does a simple name in UML Class and objects consists of ?

- a) Letters
- b) Digits
- c) Punctuation Characters
- d) All of the mentioned

[View Answer](#)

Answer: d

Explanation: A simple name consists of letters, digits and punctuation characters.

2. What Does a Composite name consists of in a UML Class and object diagram ?

- a) Delimiter
- b) Simple names
- c) Digits
- d) All of the mentioned

[View Answer](#)

Answer: d

Explanation: Composite name consists of sequence of simple names and simple names already consists of digits.

3. A Class consists of which of these abstractions?

- a) Set of the objects
- b) Operations
- c) Attributes
- d) All of the mentioned
- e) b, c

[View Answer](#)

Answer: d

Explanation: A class is a abstraction of objects, operations and attributes.

4. A class is divided into which of these compartments ?

- a) Name Compartment
- b) Attribute Compartment
- c) Operation Compartment
- d) All of the mentioned

View Answer

Answer: d

Explanation: Class is divided into 3 main compartments mentioned)

5. An attribute is a data item held by which of the following ?

- a) Class
- b) Object
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: c

Explanation: Attribute is a data item held by class or object.

6. What should be mentioned as attributes for conceptual modelling ?

- a) Initial Values
- b) Names
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: c

Explanation: Initial values along with thier names are used as attributes.

7. An operation can be described as?

- a) Object behavior
- b) Class behavior
- c) Functions
- d) a,b
- e. None of the mentioned

View Answer

Answer: d

Explanation: An operation is class and object behavior.

8. Which of these are part of class operation specification format ?

- a) name
- b) parameter list

- c) return-type list
- d) All of the mentioned

View Answer

Answer: d

Explanation: It consists of all these 3 mentioned format.

9. What among these is true ?

- a) Associations may also correspond to relation between instances of three or more classes
- b) Association lines may be unlabeled or they may show association name
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer : c

Explanation : All the statements mentioned are true with respect to Notations.

10. What is multiplicity for an association?

- a) The multiplicity at the target class end of an association is the number of instances that can be associated with a single instance of source class
- b) The multiplicity at the target class end of an association is the number of instances that can be associated with a number instance of source class
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer : a

Explanation : Multiplicity is number of instances associated with single instance to source class.

11. Which among these are the rules to be considered to form Class diagrams?

- a) Class symbols must have at least a name compartment
- b) Compartment can be in random order
- c) Attributes and operations can be listed at any suitable place
- d) None of the mentioned

View Answer

Answer : a

Explanation : Compartments can be in order, Attributes and operations must be listed one per line.

12. Which of these are the heuristics ?

- a) Name classes, attributes, and roles with noun phrases
- b) Name operations and associations with verb phrases
- c) Stick to binary associations
- d) All of the mentioned

View Answer

Answer : d

Explanation : All the heuristic mentioned are true.

13. An object symbol is divided into what parts ?

- a) Top compartment
- b) Bottom Compartment
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer : c

Explanation : An object is divided into top and bottom compartments.

Which of the following UML diagrams has a static view?

- a) Collaboration
- b) Use case
- c) State chart
- d) Activity

View Answer

Answer:b

Which diagram in UML shows a complete or partial view of the structure of a modeled system at a specific time?

- a) Sequence Diagram
- b) Collaboration Diagram
- c) Class Diagram
- d) Object Diagram

View Answer

Answer: d

Interaction Diagram is a combined term for

- a) Sequence Diagram + Collaboration Diagram
- b) Activity Diagram + State Chart Diagram

c) Deployment Diagram + Collaboration Diagram

d) None of the mentioned

View Answer

Answer: a

Structure diagrams emphasize the things that must be present in the system being modeled.

a) True

b) False

View Answer

Answer: a

Which of the following diagram is time oriented?

a) Collaboration

b) Sequence

c) Activity

View Answer

Answer: b

How many diagrams are there in Unified Modelling Language?

a) six

b) seven

c) eight

d) nine

View Answer

Answer: d

Explanation: The nine UML diagrams include use-case, sequence, collaboration, activity, state-chart, deployment, class, object and component.

Class diagram, component diagram, object diagram and deployment diagram are considered as types of

A structural diagrams

B behavioral diagrams

C non-behavioral diagrams

D non structural diagrams

Ans: A

Class diagram, component diagram, object diagram and deployment diagram are considered as types of

A>structural diagrams

B>behavioral diagrams

C>non-behavioral diagrams

D>non structural diagrams

Ans:D

In UML diagrams, relationship between object and component parts is represented by

A> ordination

B> aggregation

C> segregation

D> increment

Ans:B