INSEM EXAM SDM QUESTION BANK

1.Use case descriptions consist of interaction____?

a) Use case

b) product

c) Actor

d) Product & Actor

Answer: d

2. Which of these statements are truly acceptable?

a) A precondition is an assertion guaranteed to be true when the operation finishes

b) A post-condition is an assertion guaranteed to be true when the activity or operation begins

c) An event which causes a use case to begin is trigger

d) None of the mentioned

Answer: c

3. What are the types of prototypes?

a) Horizontal prototypes

b) Vertical Prototypes

c) All of the mentioned

d) None of the mentioned

Answer: c

4. Diagrams which are used to distribute files, libraries, and tables across topology of hardware are called

A. deployment diagrams

B. use case diagrams

C. sequence diagrams

D. collaboration diagrams

Answer; A

5. How many views of the software can be represented through the Unified Modeling Language (UML)?

a. Four

b. Five

c. Nine

d. None of the above

Answer: b. Five

6. Which of the following views represents the interaction of the user with the software but tells nothing about the internal working of the software?

a. Use case diagram

b. Activity diagram

c. Class diagram

d. All of the above

Answer: a. Use case diagram

7. What are the notations for the Use case Diagrams?

a) Use case

b) Actor

c) Prototype

d) Use case and Actor

Answer: d

8. Which among the following can be heuristic for Use case diagram?

a) The product can be made actor

b) Never name actors with noun phrases

c) Name Use cases with verb phrases

d) All of the mentioned

Answer: c

10. Which of the following statements is true?

i. There are 5 views that are represented through the Unified Modelling Language (UML).

ii. These 5 views in UML are represented through 9 UML diagrams.

a. Only i is true

b. Only ii is true

c. Both i and ii are true

d. None of them is true

Answer: c. Both I and ii is true

11.Use case description consists of the following...

(A) Actors

(B) Number and Use case name

(C) Need and stakeholder

(D) Both a and b

(E) All of the above

Answer (E) All of the above

12. Select the true statement from the following.

(A) The first condition is has guaranteed to be true if the activity finishes

(B) The next or post-condition is guaranteed to be true if the activity begins

(C) Trigger is an event that is used to give a start to a use case to begin.

(D) Both a and b

Answer: (C) Trigger is an event that is used to give a start to a use case to begin.

13. Select the true statement for the use case description format.

(A) Underline text indicates to another use case

(B) Extensions section utilize a complex numbering scheme

(C) Indentation is used in a line to bring extensions easy to read

(D) Both a and b

(E) All of the above

View Answer

Answer: (E) All of the above

14. Select the interaction that the use case description has.

(A) Product and Actor

(B) Use case

(C) Actor

(D) Product

Answer: (A) Product and Actor

15. Select the methods used by the use case to write a description.

(A) Actors in a use case are mostly stakeholders

(B) Preconditions always be true in advance statement start

(C) Requires a list should be checked when writing each use case

(D) Both A and C

(E) All of the mentioned

Answer (E) All of the mentioned

16. Select the steps that are needed in use case driven iterative development?

(A) At each loop step, one or many use cases are chosen for execution

(B) Iteration must be followed till the system is properly ended

(C) Iterative development formed system work gradually through analysis, design, coding, testing, and evaluation

(D) Both a and b

(E) All of these

Answer: (E) All of these

17. Select the true in context to extensions.

(A) The flow specifies the extensions

(B) The alternatives are known as an extension because they extend the activity flow in various direction through the branch point

(C) Both a and b

(D) All of the above

(E) None of these

18. Select the diagram that is used to model the vocabulary of a system.

(A). Object Diagram

(B). Activity Diagram

(C). Both a and b

(D). Interaction Diagram

(E). Class diagram

Answer (E). Class diagram

19. Select which one is model static data structures.

(A). Object diagrams

(B). Class diagrams

(C). Activity diagrams

(D). Interaction diagrams

(E). All of the above

Answer (B). Class diagrams

20. Select the engineering From the following _____that is theoretically feasible but programmatically o restricted value.

(A). class diagram

(B). activity diagram

(C). object diagram

(D). interaction diagram

(E), Both a and c

Answer (C). object diagram

21. Select where the class diagrams are not convenient

(A). simple interactions model

(B). the vocabulary of a system model

(C). simple collaborations model

(D). logical database schema model

(E). All of the above

Answer (C). simple collaborations mode

22. Select from the following which is used to show one static frame in the dynamic storyboard.

(A). Class diagram

(B). Activity diagram

(C). Object diagram

(D). Interaction diagram

Answer (C). Object diagram

23. Select the diagrams that are used to explain data structures, and the static snapshots parts of the things place in the class diagrams.

(A). use case

(B). Collaboration

(C). Object

(D). Sequence

(E). None of these

Answer (C) Object

24. Select the view which is shown by object Object diagram.

(A). logical

(B). dynamic

(C). static

(D). process

(E). All of these

Answer (C). static

25. Select from the following _____ has to be reverse-engineered.

(A). visibility

(B). relationship

(C). target

(D). constraints

(E). All of these

Answer (C). target

26. Which of the following diagram is used to model the distribution of objects?

a. Object Diagram

b. Activity Diagram

c. State Chart Diagram

d. Interaction Diagram

27. _____select from the following in which engineering and reverse engineering can be applicable

(A). tagged values

(B). stereotypes

(C). class diagram

(D). adornments

(E). Both a and b

who consider diagrams as a type of Class diagram, component diagram, object diagram, and deployment diagram? *
A) structural
B) behavioral
C) non-behavioral
D) non structural

 In Design phase, which is the primary area of concern ? *
a) Architecture
b) Data
c) Interface
d) All of the mentioned

 Which model shows the flow of object interactions? *
a) Sequence model
b) Subsystem model
c) Dynamic model
d) Both Sequence and Dynamic model

 _____ allows us to infer that different members of classes have some common characteristics. *
a) Realization
b) Aggregation
c) Generalization
d) dependency

Structured Analysis is based on the principle of Bottom-Up Approach. *
a) True
b) False

Which statements are considered correct in reference to use case diagram? *
a) A scenario is an interaction between product and particular interaction
b) A use case diagram represent a product's use cases and actors involved in each use case
c) All of the mentioned
d) None of the mentioned

 Which among the following can be heuristic for Use case diagram? *
a) Product can be made actor
b) Never name actors with noun phrases
c) Name Use cases with verb phrases
d) All of the mentioned

Use case models that can be summarized under which of this category? *
a) Usecase Diagram

b) Usecase Description
c) All of the mentioned
d) None of the mentioned

Which of the following statement is true? *
a) Use case diagram is a dynamic model of interaction between product and actors in a use case
b) Use case Description is a static model of usecase supported by a product
c) All of the mentioned
d) None of the mentioned

Use case description contents include _____ *
a) Use case name and number
b) Actors
c) Stakeholder and needs
d) All of the mentioned

A class is divided into which of these compartments? *
a) Name Compartment
b) Attribute Compartment
c) Operation Compartment
d) All of the mentioned

In the Analysis phase, the development of the _____ occurs, which is a clear statement of the goals and objectives of the project. *
1 point
a) documentation
b) flowchart
c) program specification
d) design

In Design phase, which is the primary area of concern ? *
1 point
a) Architecture
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d) All of the mentioned

Which model describes the static structure of the system using object classes and their relationships? *
1 point
a) Sequence model
b) Subsystem model
c) Dynamic model
d) Structural model

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1 point
a) True
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What are the notations for the Use case Diagrams? *
1 point
a) Use case
b) Actor
c) Prototype
d) Use case and Actor

Which description is inappropriate? *
2 points
a) A usecase is a type of agent that interacts with a product
b) An actor is a type of complete interaction between product and its environment
c) All of the mentioned
d) None of the mentioned

Which statements are considered correct in reference to use case diagram? *
2 points
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An operation can be described as? *
1 point
a) Object behavior
b) Class behavior
c) Functions
d) Object & Class behavior

What among the following statement is true? *
2 points
a) Associations may also correspond to the 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

What is multiplicity for an association? *
2 points
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

Which among these are the rules to be considered to form Class diagrams? *
1 point
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

Which of the following statement is true? *
a) Adding Multiplicities is the last step in conceptual modelling
b) Adding Multiplicities is the easiest step
c) All of the mentioned
d) None of the mentioned

Which of these truly defines Software design? *
a) Software design is an activity subjected to constraints
b) Software Design specifies nature and composition of software product
c) Software Design satisfies client needs and desires
d) All of the mentioned

.which diagrams are used to distribute files, libraries, and tables across topology of the hardware *
A) deployment
B) use case
C) sequence
D) collaboration

Which of the following is incorrect? *
2 points
a) Layered architectures are highly changeable, so this pattern can be used when changeability is an important quality attribute
b) Layered-style programs are easy to modify because changes can be made to a layer independently of the rest of the program
c) All of the mentioned
d) None of the mentioned

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Which of these does not represent object oriented design? *
1 point
a) It follows regular procedural decomposition in favor of class and object decomposition
b) Programs are thought of collection of objects
c) Central model represents class diagrams that show the classes comprising a program and their relationships to one another
d) Object-oriented methods incorporates Structural methods

_____are Weak entities are represented in UML diagrams by using aggregations. *
A) qualified
B) non-qualified
C) non-qualified
D) qualified

_____ represented by In UML diagrams, relationship between component parts and object. *
A) ordination
B) aggregation
C) segregation
D) increment

.which type they considered Activity diagram, use case diagram, collaboration diagram, and sequence diagram? *
A) non-behavioral
B) non-structural
C) structural
D) behavioral

. which diagram is used to show interactions between messages are classified as? *
A) activity
B) state chart
C) collaboration
D) object lifeline

Collection of stakeholder needs is called? *
1 point
a) Requirements elicitation
b) Requirements validation

c) Needs Elicitation

d) Requirements & Needs elicitation

Employees use our company cars. This example should be modeled as *****

1 point

A. Aggregation

B. Composition

C. Association

A class is composed of **5** to **20** students and one or more instructors. This example should be modeled as *****

1 point

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B. Composition

C. Association

An operation can be described as**?** *****

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d) None of the mentioned

.simple name in UML Class and objects consist of _____. *****

A) Letters

B) Digits

C) Punctuation Characters

D) All of the mentioned

which of the following Composite name consists of in a UML Class and object diagram? *
A) Delimiter
B) Simple names
C) Digits
D) All of the mentioned

.which of these abstractions class consist? *
A) Set of the objects
B) Operations
C) Attributes
D) All of the mentioned