Software Modelling and Design

Question Bank

Unit 1, 2 & 3

- Q1. Which among the following are not the valid notations for package and component diagram?
- a) Notes
- b) Box
- c) Extension Mechanisms
- d) Packages
- Q2. Which of the following statement is false?
- a) A note is a dog-eared box connected to any model element by a dashed line
- b) The main way to extend UML is by constraints, properties, etc
- c) A dependency relation holds between two entities D and I where change in I does not affect D
- d) All of the mentioned
- Q3. Which of these depicts the true definition for the UML extensions?
- a) A constraint is a statement that must be true of the entities designated by one or more model elements
- b) A property is a characteristic of the entity designated by a model element
- c) A stereotype is a UML model element given more specific meaning
- d) All of the mentioned
- **Q4.** Which of the following is incorrect in reference to dependency?
- a) Module D uses module I when a correct version of I must be present for D to work correctly
- b) Module D depends for compilation on module I
- c) Class I imports elements from package D
- d) None of the mentioned
- Q5. What is a collection of model elements called?
- a) Box
- b) Dependency
- c) UML packages
- d) Package members

- **Q6.** A package diagram consists of the following?
- a) Package symbols
- b) Groupings of Use cases, classes, components
- c) Interface
- d) Package symbols, Groupings of Use cases, classes & components
- Q7. What types of units does Component follow?
- a) Modular Unit
- b) Replaceable Unit
- c) Unit with well defined interface
- d) All of the mentioned
- **Q8.** Components can be represented by which of the following?
- a) Component symbols
- b) Stereotypes
- c) Rectangular boxes
- d) Component symbols & Stereotypes
- **Q9.** What does a component diagram consists of?
- a) Components, their Relationship to the environment
- b) Packages and dependency
- c) Internal structure
- d) Internal structure, Components & their Relationship to the environment
- Q10. Which of these is true with respect to interfaces?
- a) Interfaces in component diagram defines relationship between components and environment
- b) Interfaces realized by a class or a component are required interfaces
- c) Interface on which a class or component depends are called provided interfaces
- d) All of the mentioned
- Q11. What is a delegation connector?
- a) A delegation connector ties a component interface to one or more internal classes or components
- b) Delegation connectors are solid arrows stereotyped <>
- c) A delegation connector may also extend from an internal class to an external interface
- d) All of the mentioned
- **Q12.** Which of these are diagrammatic heuristics?
- a) Use notes, constraints, properties and stereotypes to add information to UML models

b) Use Stereotypes to name dependencies c) Use packages to group elements in static models
d) All of the mentioned
Q13. 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
Q14are Weak entities are represented in UML diagrams by using aggregations.
A) qualified B) non-qualified C) non-qualified D) qualified
Q15 represented by In UML diagrams, relationship between component parts and object.
A) ordination B) aggregation C) segregation D) increment
Q16. which type they considered Activity diagram, use case diagram, collaboration diagram, and sequence diagram?
A) non-behavioral B) non-structural C) structural D) behavioral
Q17. which diagram is used to show interactions between messages are classified as?
A) activity B) state chart C) collaboration D) object lifeline
Q18. which diagram that helps to show Dynamic aspects related to a system?
A) sequence B) interaction C) deployment D) use case
Q19. simple name in UML Class and objects consist of

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Q20. diagr	which of the following Composite name consists of in a UML Class and object ram?
B) Si C) Di	elimiter mple names igits II of the mentioned
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A) na B) pa C) ret	are part of the class operation specification format. me rameter list turn-type list of the mentioned
	which among the optional statement is true? sociations may also correspond between instances of three

B) Association lines may be unlabeled C) All of the mentioned D) None of the mentioned
Q28. Multiplicity for an association A) association is the number of instances with a single instance B) association is the number of instances with a number instance C) All of the mentioned D) None of the mentioned
Q30among these are the rules to be considered to form Class diagrams. A) Class symbols least a name compartment B) The compartment can be in random order C) Attributes and operations can be listed D) None of the mentioned
Q31. these are the heuristics A) Name classes attributes with noun phrases B) Name operations with verb phrases C) Stick to binary associations D) All of the mentioned
Q32. An object symbol is divided into part of compartment A) Top B) Bottom C) All of the mentioned D) None of the mentioned
Q33diagram is time-oriented? A) Collaboration B) Sequence C) Activity D) None of the mentioned
Q34. which term are combined Interaction Diagram? A) Sequence Diagram + Collaboration Diagram B) Activity Diagram + State Chart Diagram C) Deployment Diagram + Collaboration Diagram D) None of the mentioned
Q35. Structure diagrams emphasize the things present system being modeled. A) True B) False
Q36diagram in UML shows a complete of a modeled system at a specific time. A) Sequence B) Collaboration C) Class D) Object

Q37. _____UML diagrams has a static view.

- A) Collaboration
- B) Use case
- C) State chart
- D) Activity

Q38. What does a simple name in UML Class and objects consist of?

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

Q39. 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

Q40. A Class consists of which of these abstractions?

- a) Set of the objects
- b) Operations
- c) Attributes

d) All of the mentioned

Q41. A class is divided into which of these compartments?

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

Q42. 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

Q43. What should be mentioned as attributes for conceptual modelling?

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

Q44. An operation can be described as?

- a) Object behavior
- b) Class behavior
- c) Functions

d) Object & Class behavior

Q45. Which of these are part of the class operation specification format?

- a) name
- b) parameter list
- c) return-type list

d) all of the mentioned

Q46. What among the following statement is true?

- 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

Q47. 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

Q48. 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

Q49. 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

Q50. An object symbol is divided into what parts?

a) Top compartment

- b) Bottom Compartment
- c) All of the mentioned
- d) None of the mentioned
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- C) collaboration
- D) object lifeline

Q56. which diagrams are used to distribute files, libraries, and tables across topology of the hardware

A) deployment

- B) use case
- C) sequence
- D) collaboration

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ALL THE BEST