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## Chapter 60. Remining Requirements 1 100

- Q1. Which of the following can be called Component-based development?
  - A. Assembling software from pre-existing components
  - B. Assembling software by building separate units and integrating these units together
  - C. Building components for others
  - D. Building components for own use only

Answer: A, C

- Q2. Why are components hard?
  - A. Components are built using low-level languages
  - B. Difficulties of model generations for components are built using structured languages rather than object-oriented languages
  - C. Programmers often are comfortable with others works known as NIH syndrome
  - D. Components are hard to maintain

Answer: B, C [See page 211 and slides]

- Q3. Which are the reasons that make component-based development hard?
  - A. NIH syndrome, which mainly afflicts programmers
  - B. Components generally are written in hard programming language
  - C. Modern object oriented languages do not support component building
  - D. Component are redeveloped using functionality-based decomposition which affects object orientation

Answer: A, D

- Q4. Which one is not a contribution of object-orientation to component-based development?
  - A. Encapsulation of internal details makes it easier to use components in systems for which they were not designed
  - B. Generalization hierarchies make it easier to create new specialized classes when they are needed
  - C. Composition and aggregation structures can be used to encapsulate components
  - D. Hardly typed nature of object-orientation makes data secure

Answer: D

- Q5. Which one is considered strong association?
  - A. Composition
  - B. Aggregation

Answer: A

- Q6. Students attend several classes and if any class is cancelled, students are not destroyed. What type of association exists between a students and class?
  - A. Composition
  - B. Aggregation

Answer: B

- Q7. A meal is made of ingredients. Ingredient is in only one meal at a time and if you throw a meal its ingredients are also lost. What type of association exists between a meal and ingredients?
  - A. Composition
  - B. Aggregation

Answer: A

- Q8. How two classes may differ?
  - A. In behaviour (operations or methods)
  - B. In data (attributes)
  - C. In associations with other classes
  - D. In how many objects originate from the classes

Answer: A, B, C [Number of instances does not matter]

- Q9. Which of the following are the elements of a pattern?
  - A. A context
  - B. Forces
  - C. A platform
  - D. A software configuration

Answer: A, B, D

Q10patterns are groups of concepts useful in modelling requirements.  Which one best fits the blank space?  A. Analysis B. Architectural C. Design D. Structural  Answer: A
Q11patterns describe the structure of major components of a software system.  Which one best fits the blank space?  A. Analysis  B. Architectural  C. Design  D. Structural  Answer: B
Q12patterns describe the structure and interaction of smaller software components Which one best fits the blank space?  A. Analysis B. Architectural C. Design D. Structural
Answer: C

Md. Abdul Bari bidyut7279@gmail.com 2