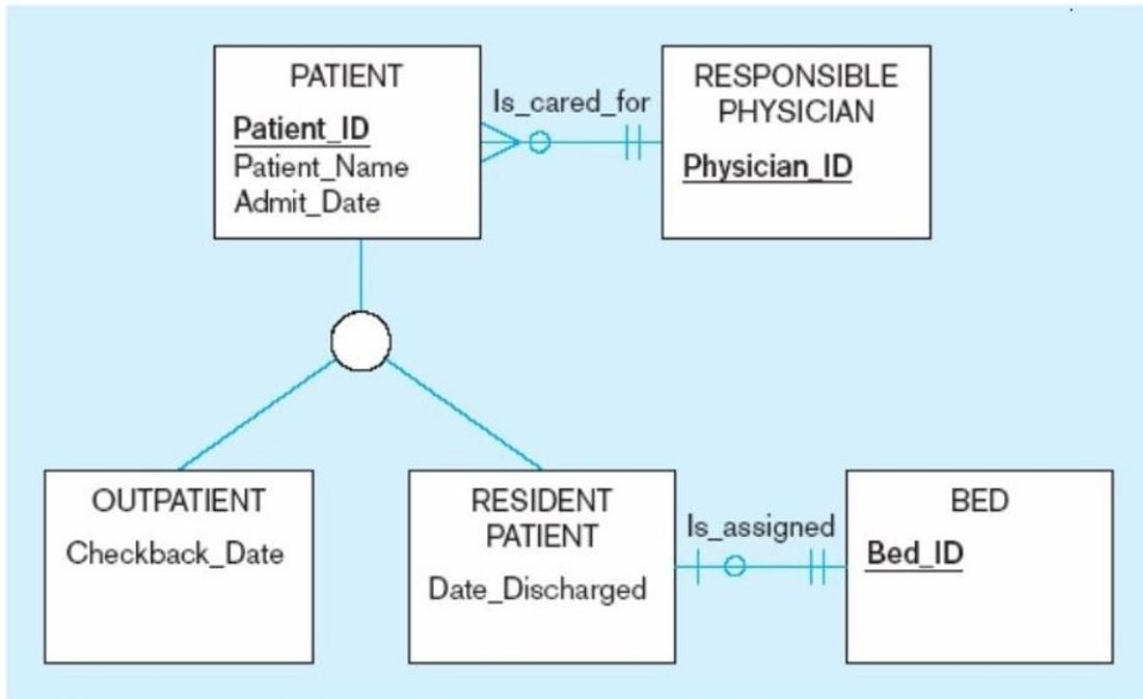


MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) The property by which subtype entities possess the values of all attributes of a supertype is called: 1) \_\_\_\_\_  
A) multiple inheritance. B) hierarchy reception.  
C) class management. ☒ D) attribute inheritance.
- 2) In the figure below, which of the following is a subtype of patient? 2) \_\_\_\_\_



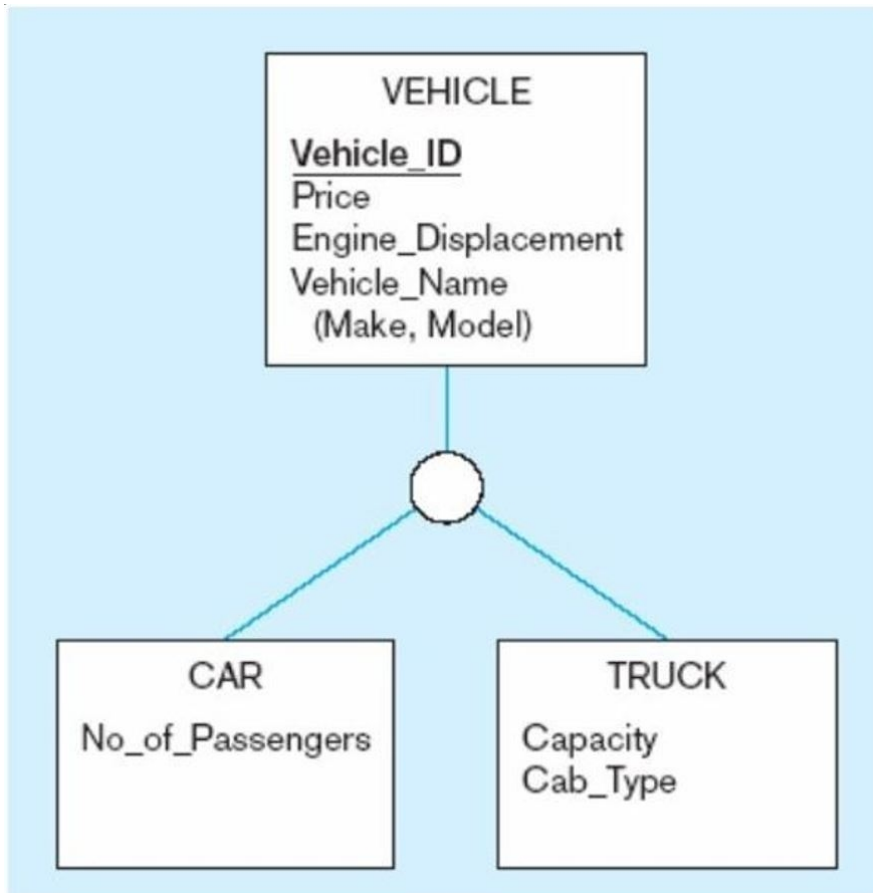
A) Physician

☒ B) Outpatient

C) Bed

D) Date\_Hired

3) In the figure below, to which of the following entities are the entities "CAR" and "TRUCK" generalized? \_\_\_\_\_



- A) Model                      B) Price                      C) Make                      ☒ D) Vehicle

4) A(n) \_\_\_\_\_ constraint is a type of constraint that addresses whether an instance of a supertype must also be an instance of at least one subtype.

- A) weak                      B) disjoint                      ☒ C) completeness                      D) overlap

5) The \_\_\_\_\_ rule specifies that an entity can be a member of only one subtype at a time.

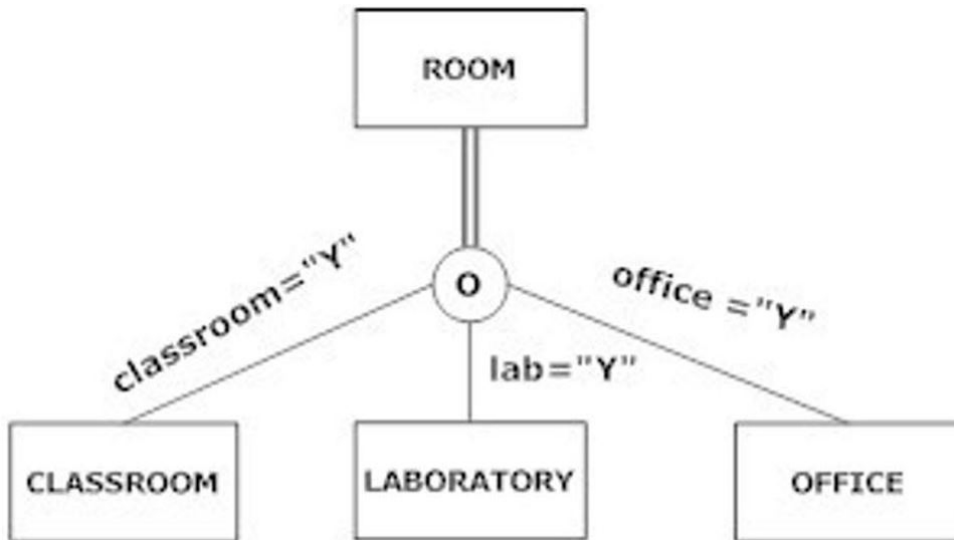
- A) exclusion                      B) inclusion                      C) removal                      ☒ D) disjoint

6) An attribute of the supertype that determines the target subtype(s) is called the:

- A) subtype decision.                      B) disjoint indicator.  
☒ C) subtype discriminator.                      D) determinant.

7) The following figure shows an example of:

7) \_\_\_\_\_

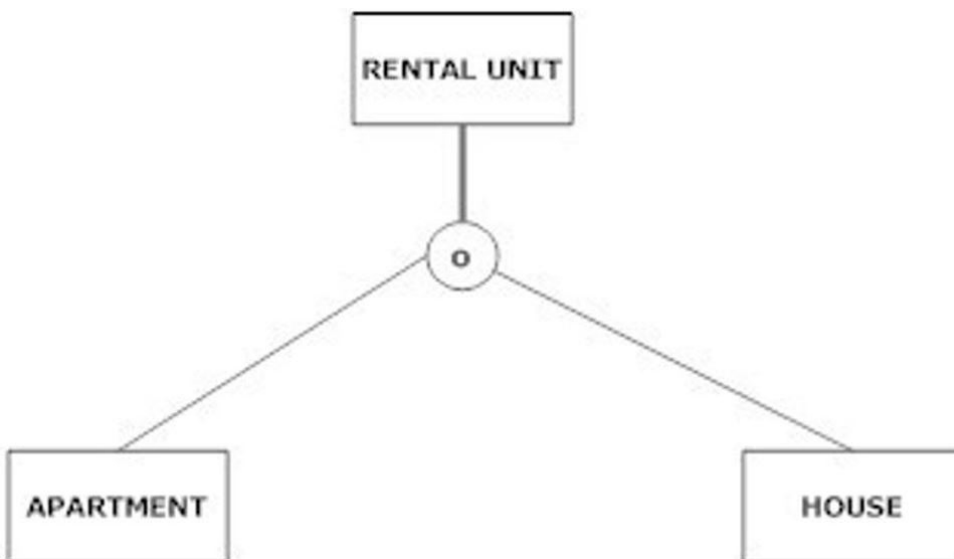


A) the completeness rule.  
C) the underdog rule.

B) the disjoint rule.  
✓ D) the overlap rule.

8) Which of the following statements is true about the figure shown below?

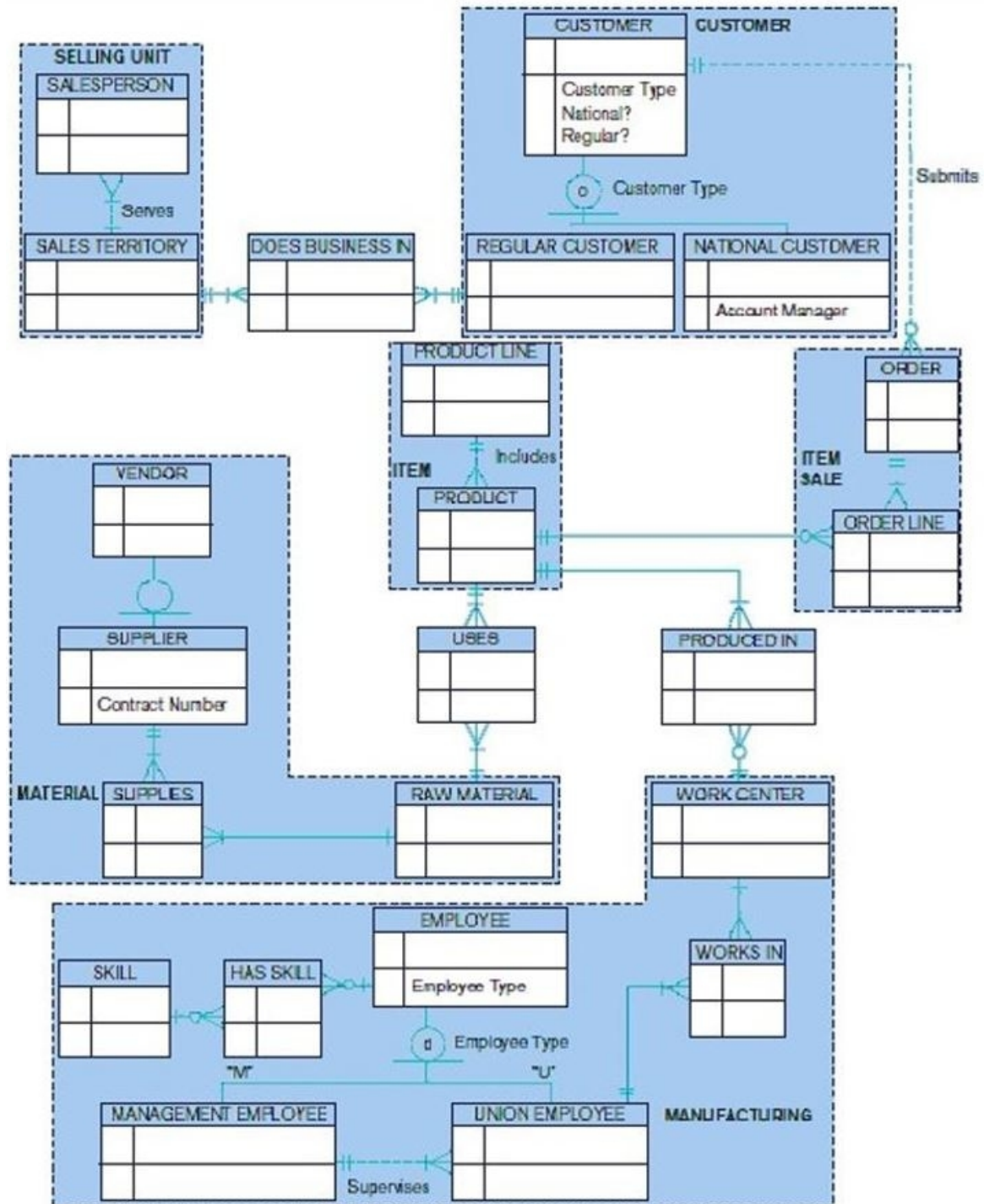
8) \_\_\_\_\_



- ✓ A) A rental unit can be an apartment, a house or just a rental unit. It could be both an apartment and a house at the same time.
- B) A rental unit can be an apartment, house or just a rental unit; it may not be more than one at the same time.
- C) A rental unit must be either an apartment or a house, and cannot be both at the same time.
- D) A rental unit must be either an apartment or a house, and could be both.

9) The figure below is an example of a(n):

9) \_\_\_\_\_



- A) hierarchical data model.  
C) supertype/subtype hierarchy.

- B) column cluster.  
✓ D) entity cluster.

- 10) All of the following are steps to using a packaged data model EXCEPT: 10) \_\_\_\_\_
- ✓A) utilize all business rules that come with the packaged data model.
  - B) identify the parts of the data model that apply to your data modeling situation.
  - C) map data to be used in packages with existing data in the current databases.
  - D) rename the identified data elements.
- 11) The process of defining a more general entity type from a set of more specialized entity types is called: 11) \_\_\_\_\_
- A) normalization.
  - B) extrapolation.
  - C) specialization.
  - ✓D) generalization.
- 12) The \_\_\_\_\_ rule specifies that an entity instance of a supertype is allowed not to belong to any subtype. 12) \_\_\_\_\_
- A) total specialization
  - B) disjointness
  - C) semi-specialization
  - ✓D) partial specialization