



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



## WORKSHEET – 31

**Topic : Cardinality and different types of keys**

Subject: COMPUTER SCIENCE

Class - 12

F.M:15

Chapter: Relational Model

Date: 25/07/2020

**Choose the correct answer for each question:**

**15x1=15**

1.



This indicates \_\_\_\_\_ cardinality.

- One to many
  - One to one
  - Many to many
  - Many to one
2. \_\_\_\_\_ express the number of entities to which another entity can be associated via a relationship set.
- Mapping Cardinality
  - Relational Cardinality
  - Participation Constraints
  - None of the mentioned
3. An entity in A is associated with at most one entity in B, and an entity in B is associated with at most one entity in A. This is called as
- One-to-many
  - One-to-one
  - Many-to-many
  - Many-to-one
4. Which of the following is usually chosen as a primary key for a relation?
- a candidate key that is composite
  - a super key
  - a candidate key that is minimal
  - all of the above
5. An entity in A is associated with at most one entity in B. An entity in B, however, can be associated with any number (zero or more) of entities in A.
- One-to-many
  - One-to-one
  - Many-to-many
  - Many-to-one
6. The minimal set of super key is called:
- Primary key
  - Secondary key

- c) Candidate key
  - d) foreign key
7. Choose the correct statement regarding super keys:
- a) A super key is an attribute or a group of multiple attributes that can uniquely identify a tuple
  - b) A super key is a tuple or a set of multiple tuples that can uniquely identify an attribute
  - c) Every super key is a candidate key
  - d) A super key is an attribute or a set of attributes that distinguish the relation from other relations
8. In a one-to-many relationship, the entity that is on the one side of the relationship is called a(n) \_\_\_\_\_ entity.
- a) Parent
  - b) Child
  - c) Instance
  - d) subtype
9. In which of the following is a single-entity instance of one type related to many entity instances of another type?
- a) One-to-many
  - b) One-to-one
  - c) Many-to-many
  - d) Many-to-one
10. In which of the following can many entity instances of one type be related to many entity instances of another type?
- a) One-to-many
  - b) One-to-one
  - c) Many-to-many
  - d) Many-to-one
11. Every candidate key is super key.
- a) True
  - b) False
12. What is a foreign key?
- a) A foreign key is a primary key of a relation which is an attribute in another relation
  - b) A foreign key is a super key of a relation which is an attribute in more than one other relations
  - c) A foreign key is an attribute of a relation that is a primary key of another relation
  - d) A foreign key is the primary key of a relation that does not occur anywhere else in the schema
13. The primary key is selected from the:
- a) Primary key
  - b) Secondary key
  - c) Candidate key
  - d) foreign key

14. \_\_\_\_\_ is an attribute or multiple attributes that can uniquely identify a tuple in a relation.

- a) Primary key
- b) Super key
- c) Candidate key
- d) foreign key

15. What is the method of specifying a primary key in a schema description?

- a) By writing it in bold letters
- b) By underlining it using a dashed line
- c) By writing it in capital letters
- d) By underlining it using a bold line

Phalguni Pramanik