

COMP 353 – Quiz 4

1. Relationships among the attributes of a relation is called ...

(a) Functional dependencies

(b) Relationship set

(c) Foreign keys

(d) Multivalued

2. If the functional dependency $ABC \rightarrow CD$ holds on a relation, which of the following FD's does NOT hold?

(a) $ABC \rightarrow C$

(b) $ABC \rightarrow D$

(c) $ABC \rightarrow \emptyset$

(d) $AB \rightarrow D$

3. How many non-trivial FD's may exist on relation $S(A, B)$?

(a) 1

(b) 2

(c) 3

(d) 4

4. Suppose every FD on R is trivial. Which of the following is the best we can conclude about the keys of R ?
- (a) R has one candidate key
 - (b) R had one primary key
 - (c) R has one superkey
 - (d) All the above

5. A functional dependency is a relationship between or among:

(a) Tables

(b) Rows

(c) Relations

(d) Attributes

(e) All the above

6. Consider the following instance of relation $T(A, B, C)$:

A	B	C
—	—	—
1	0	0
2	1	1
1	0	2

Which of the following FD's is NOT satisfied on T ?

(a) $C \rightarrow B$

(b) $A \rightarrow C$

(c) $BC \rightarrow A$

(d) $A \rightarrow B$