COMP 353 – Quiz 3

1. The following definition is for which concept?

"A set of entities of the same type that share the same properties or attributes."

- (a) Entity set
- (b) Relationship set
- (c) Objects
- (d) Entities



- (a) Phone_Number
- (b) Name
- (c) Date_Of_Birth
- (d) All the above

3. Let R be a many-to-one relationship from E1 to E2 (sharp-arrow). Consider instances of E1 and E2 with m and n tuples, respectively. Then, what can we conclude about the possible number of tuples in R?

- (a) at most m
- (b) at most n
- (c) exactly m
- (d) exactly n

4. Let R be the root of an ISA hierarchy (E/R diagram), and suppose S and T are both direct chidren of R. If we follow an object-oriented approach to convert this diagram into relations, how many relations will be generated in general?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

- 5. Let R(A,B,C) be a relation schema and suppose B is the candidate key of R. Which of the following is correct about the number of superkeys of R?
 - (a) R has 4 superkeys
 - (b) R has 3 superkeys
 - (c) R has 1 superkey
 - (d) R has 8 superkeys