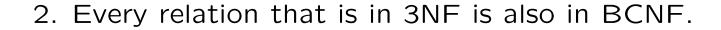
COMP 353 – Quiz 7

1. Relation S(A,B,C) with FD's $\{AB \to C,\ BC \to A,\ AC \to B\}$ is in BCNF.

(a). True

(b). False



- (a). True
- (b). False

3. Given a relation schema R(A,B,C), the following satisfies the definition of decomposition for R.

$$\underline{R} = \{R_1(A), R_2(B), R_3(C)\}$$

- (a). True
- (b). False

- 4. Consider R(A,B,C) with FD's: $\{A \to B, B \to C, A \to C\}$. The decomposition $\underline{R} = \{R_1(A,B), R_2(B,C)\}$ is depensency-preserving.
 - (a). True
 - (b). False

- 5. Let S(A, B, C) be a relation with the FD: $\emptyset \to ABC$. Which of the following is correct?
 - (a). S is not in 3NF
 - (b). S is in 3NF but not BCNF
 - (c). S is in BCNF