

## Assignment on Discrete Mathematics (CSE-103)

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Chapter: 1

Section: 1

Exercise No-17: Determine whether each of these conditional statements is true or false.

- a) If  $1+1=2$  , then  $2+2=5$ .
- b) If  $1+1= 3$  , then  $2+2=4$ .
- c) If  $1+1= 3$  , then  $2+2=5$ .
- d) If monkeys can fly, then  $1+1=3$ .

Solution:

We consider hypothesis as  $p$  and conclusion as  $q$ .

- a) As,  $p$  is true and  $q$  is false, conditional statement is false.
- b) As,  $p$  is false and  $q$  is true, conditional statement is true.
- c) As,  $p$  is false and  $q$  is false, conditional statement is true.
- d) As,  $p$  is false and  $q$  is false, conditional statement is true.