

Here is an example of a quiz on Chapter 7. As covered in the textbook, watch out for the differences between "only if," "if and only if," and "if" and "provided that" when they are in the middle of a sentence. See #s 17, 18, and 21 in the dictionary. See if you can complete this quiz in 15 minutes.

QUIZ #2 TRANSLATE INTO SYMBOLIC NOTATION

1. If not A, then not B.
2. X even though P.
3. H only if P, provided that not C.
4. The development for cures for diseases will emerge from the human genome project, provided that commercial development can take place. (D= Development for cures for diseases will emerge from the human genome project; C = Commercial development can take place.)
5. Clinton will survive the latest scandal regarding his personal life if and only if his popularity stays high and the Republicans do not win any more congressional seats in the November elections. (C = Clinton will survive the latest scandal regarding his personal life; P = Clinton's popularity stays high; R = The Republicans win more congressional seats in November.)

Answers:

1. $\sim A \supset \sim B$
2. $X \bullet P$
3. $\sim C \supset (H \supset P)$
4. $C \supset D$

$$5. C \equiv (P \bullet \sim R)$$