

### **4.2.1. Conditional Translation Problems**

#### **A. Basic Conditionals**

1. We can go to Chicago if the weather is nice.
2. We'll have cake only if Jack wins the prize.
3. Provided you pass the exam, you'll get an "A" in Logic.
4. Assuming God exists, the meek will inherit the earth.
5. We'll have a quiz today only on the condition that we finish the translation problems.
6. Trixie will stay in Las Vegas provided that Elvis does too.
7. Only if Jack made extra sushi will Neko get full.

Copyright Brian Beakley 2015

#### **B. Conditionals with Other Form Phrases**

1. If we have bread and peanut butter, then we can make a sandwich.
2. If either Ace or Rex cheats on the final exam, the fraternity will be put on probation and the formal dance will be cancelled.
3. Either Suki will study for the exam, or she'll pass only if the exam is easy.
4. Dr. Slim will turn away the client only if he either suspects police involvement or he's received a better offer.
5. It is not the case that if Jack exercises, then he won't win the race.
6. If it is not the case that Jack exercises, then he won't win the race.
7. Suki doesn't like missing a free meal, but she won't come out with us if Neko is coming with us.

8. Kitty will go to Reno if Dr. Slim makes bail; otherwise she'll stay in Las Vegas.
9. Either we'll have snow only if it gets cold, or we'll have thunderstorms only if it gets hot.
10. We'll have champagne and cake if Suki wins the prize; otherwise we'll have ice cream without having champagne.

### **C. Conditionals within Conditionals: "If... then"**

1. If we have bread, then if we have peanut butter we can make a sandwich.  
*(Use the same translation table as in B1. Does this sentence mean the same as B1?)*
2. If we'll have cake only if Jack will win the prize, then Jack will win the prize
3. If you'll pass Logic if you pass the final exam, then you should study for the final exam.
4. If the police won't suspect Dr. Slim assuming he leaves no fingerprints, then he will be charged only on the condition that Kitty talks to the police.
5. If Trixie marries Elvis, then he'll stay in Las Vegas provided he gets a casino job.
6. If Rex passed the course assuming he passed the final, then he didn't pass the course only if he didn't pass the final.

**D. More Conditionals within Conditionals**

1. If we have peanut butter we can make a sandwich, provided that we have bread.

*(Use the same translation table as in C1. Does this sentence translate the same as C1? Does this sentence mean the same thing as C1?)*

2. Rex will graduate provided that he passes the final, assuming his library fines have been paid.

3. Neko will remain hungry if Suki comes to dinner, assuming that Suki eats all the sushi if she has a chance to.

4. Provided that the fuel gauge was on empty, they made it home only if they stopped for gas.

5. Only if there is a complaint about noise will the fraternity be put on probation, provided that Rex and Ace both pass the exam

6. Dr. Slim will be arrested for an outstanding warrant if he's stopped by police; otherwise he and Kitty will both go to Reno if the weather is good.

7. Assuming Neko will eat all the sushi if she can, Jack will have dinner only on the condition that we bring home extra food.

8. We can buy the property only on the condition that we paid our bills on time, assuming that the bank won't approve the loan if our credit score is bad.

9. If Trixie marries Elvis, then he'll stay in Vegas assuming he gets a casino job; but if Trixie doesn't marry Elvis, then it is not the case that he'll get a casino job only if he stays in Vegas.

**E. Conditional Argument Patterns**

- (A) 1. We'll have ice cream **if** you get an A  
2. We'll have ice cream **if** you don't get an A
- 

∴ We'll have ice cream

- (B) 1. We'll have ice cream **only if** you get an A  
2. We'll have ice cream **only if** you don't get an A
- 

∴ We **won't** have ice cream

*(Do these arguments seem valid? What does this show about the translation of "if" compared to the translation of "only if"?)*