Introduction to Semantics: Homework 2 Answer key

Sentence entailments

- (1) a. Today is sunny.
  - b. Today is warm.

(1a) does not entail (1b) here. There's no infelicity in uttering *Today is sunny, but it isn't warm.*, for example.

- (2) a. Jane ate oatmeal for breakfast this morning.
  - b. Jane ate breakfast this morning.

(2a) entails (2b) here. It seems infelicitous to say *Jane ate oatmeal for breakfast this morning, but she didn't eat breakfast this morning.*, for example.

- (3) a. Jane ate oatmeal for breakfast this morning.
  - b. Jane ate something hot this morning.

(3a) does not entail (3b). For example *Jane ate only oatmeal for breakfast this morning, and it was cold.* entails (3a), but it entails the negation of (3b). Additionaly assuming (3a) entails (3b) would result in a contradition.

- (4) a. Juan is not aware that Mindy is pregnant.
  - b. Mindy is pregnant.

(4a) entails (4b). In particular, it presupposes its truth. It's infelicitous to utter *Juan is not aware that Mindy is pregnant, which she is not.*, for example. But testing a negated version of the sentence yields the same infelicity, e.g., *Juan is aware that Mindy is pregnant, which she is not.* This result suggests that the truth of (4b) is presupposed by (4a).

- (5) a. Every second year student who knows Latin will get credit for it.
  - b. If John is a second year student and knows Latin, he will get credit for it.

(5a) entails (5b). Using the same tests as above, consider following (5a) with the sentence *John is a second year student and knows Latin, and he will not get credit for it*. This continuation is not felicitous, which suggests that if (5a) is true, then the continuation is false. If it is false, then either John is not a second year, he doesn't know Latin, or he is and he does, but he in fact will get credit for it. In such a situation, (5b) is true.

- (6) a. If Alice wins a fellowship, she can finish her thesis.
  - b. If Alice doesn't win a fellowship, she can't finish her thesis.

(6a) does not entail (6b). There appears to be an inference from (6a) to (6b), but consider following (6a) up with *Hell, if she doesn't win a fellowship, she can finish it too!*. Such a continuation is felicitous, and moreover, it contradicts (6b).

- (7) a. Maria and Marco are married.
  - b. Maria and Marco are married to each other.

There is a reading of (7a) on which it doesn't entail (7b). Consider following up (7a) with *Not to each other, though.*, which is felicitous, but contradicts (7b). However, there is another ("collective") interpretation of (7a), on which it does entail (7b). Consider someone uttering (7a) after being asked *Do Maria and Marco live to-gether?*. Such an answer is only relevant if it has a collective interpretation. Hence following this answer with *Not to each other, though.* yields infelicity again, suggesting that (7b) is an entailment.

- (8) a. Only Amy knows the answer.
  - b. Amy knows the answer.

(8a) entails (8b), and in particular presupposes its truth. As well as following (8a) with *But she doesn't know the answer*, it is also infelicitous to follow *Not only Amy knows the answer*. with such an utterance.

- (9) a. Some student will not go to the party.
  - b. Not every student will go to the party.

(9a) entails (9b). Using the same test from above, consider continuing (9a) with a sentence expressing the negation of (9b), e.g., *It's also true that every student will go the party*. Such a continuation is infelicitous, suggesting that it is necessarily false and that (9b) is an entailment.

- (10) a. Not every student will go to the party.
  - b. Some student will go to the party.

(10a) does not entail (10b). Consider following up (10a) with *In fact, no student at all will go to the party*. Such a continuation is felicitous and, moreover, contradicts an entailment of (10b), in particular that there is some or other student who will attend the party.