

NAME: \_\_\_\_\_

Section \_\_\_\_\_

## 01:615:201INTRO TO LING THEORY

### Assignment #6

Due 12/05 before class

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Instructions:

- No email submission.

- Read the questions carefully. Make sure to make your answers legible. They can be handwritten or typed. The more you motivate your answer, the more likely you are to receive credit. Make sure any corrections are clear and easy to read.

- You may discuss the assignment and collaborate with fellow students in study groups, **but your work has to be written up individually.**

- If applicable, you need to provide the list of collaborators in your study group:

Submission of this homework constitutes signing the following Pledge:

On my honor, I have neither received nor given any unauthorized assistance on this assignment.

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**Question 1** The following words are from the lexicons of two children. Compare the pronunciations of the words to adult pronunciation.

**Child 1 (1;6)**

**Child 2 (2;0)**

soap [doup]

bib [bɛ]

light [wɑt]

bead [bi:t]

feet [bit]

slide [daɪ]

sock [sʌk]

pig [pɛk]

sock [kək]

dog [da]

geese [gis]

cheese [tis]

goose [gos]

cheese [tʃis]

fizz [fis]

bees [bis]

dish [dɪʃ]

shoes [dus]

sheep [ʃip]

bib [bɪp]

a) What happens to the final consonants in the language of each child, as compared to an adult?

b) Do all consonants behave the same way? Provide a list.

**Question 2** Considering children's tendency to overgeneralize morphological rules, what might we expect a child to use instead of the following adult words:

a) went

b) mice

**Question 3.** What is different about the rules of question formation in child grammar based on the example below? As part of your answer draw a complete tree and indicate movement with an arrow.

a. Will he will eat?

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**Question 4.** Watch these two videos of Broca's and Wernicke's aphasia:

<https://www.youtube.com/watch?v=f2IiMEbMnPM>

<https://www.youtube.com/watch?v=aVhYN7NTIKU>

- a. Provide one example from the first video typical for Broca's aphasia, motivate your choice
- b. Provide one example from the second video typical for Wernicke's aphasia, motivate your choice

**Question 5.** Consider the following garden path sentence and its parses in A and B.

i. We painted the wall with cracks.

A. We painted the wall with cracks.

B. We painted the wall with cracks. (using cracks)

a. Is parse B a result of Minimal Attachment or Late Closure?

Use a tree structure to motivate your answer

b. Does parse B suggest bottom up or top down processing? Motivate your answer.

**Question 6.** Using the assigned reading (Chomsky's interview in the Atlantic). Indicate the most accurate statement that could be attributed to Chomsky.

1. An existing artificial intelligence that suddenly predicts 100% of human linguistic behavior is:

A. An accurate model of human language because, predictive power of a theory is what only counts in science

B. An example showing us that a given set of behaviors can have more than one underlying mechanism.

C. A decisive argument that human language uses the same probabilistic parsers as currently developed AI's