

## Homework 2

Your name: \_\_\_\_\_

Due Tuesday, October 4th

*Feel free to print this and write your answers directly on the assignment itself, or you can write the answers on a separate sheet of paper. Remember to write clearly!*

**Question 1:** List the English speech sounds that fall into the following natural classes, and then cross out any superfluous features (those not needed to pick out that group of sounds).

Example: [+syllabic, +open, +back] = [ɑ] (and [+syllabic] is superfluous)

- a. [-dorsal, +sonorant, +voice]
- b. [+nasal, -labial]
- c. [-syllabic, -consonantal]
- d. [+tense, -back, +voice]
- e. [-round, -tense, -consonantal]
- f. [-coronal, +sonorant]
- g. [-close, +open, +front, -back, -tense, -round, +voice]
- h. [-nasal, -sonorant, +labial]
- i. [-continuant, +sonorant]

**Question 2:** List ALL the features (and their values) of the following sounds, using the relevant features listed on pages 10-11 of the phonetics handout, section 3.

- a. [p]
- b. [ʊ]

**Question 3:** The following groups of sounds form natural classes describable using the features we have learned about. Say what features make each set a natural class, and do not include any superfluous features. Note that there may be more than one right answer; you only need to identify one correct answer.

Example: [ɑ] = [+open, +back]

- a. [ʔ, h]
- b. [p, f]
- c. [m, n, ŋ, r, w, ɹ, j, l]

**Question 4, English syllable structure:** Draw syllable structure trees for the following English words, all the way up to the word level.

- a. [tʃoʊzən] “chosen”
- c. [kɒnstənt] “constant”
- b. [rəsplɛndənt] “resplendent”
- d. [əmeɪzɪŋ] “amazing”