

English phonetics- Week1

1. Articulation

-The vocal tract

ear

nose => nasal cavity

pharynx, larynx => oral cavity

-Upper & Lower

-5 speech organs =constrictors =articulators

1.1 Larynx =voice box

-Phonation process

-voiced: can feel vibration e.g. v, z, l, m, a, i, ...

-voiceless: can't feel vibration e.g. f, s, k, p, h, ...

1.2 Velum

-Oro-nasal process

2. Constrictors

-lips (ㅇㅍㅑ) / tongue tip (ㅇㅌㅑ) / tongue body (ㅇㅋㅑ)

2.1 Constriction location (CL): front& back

2.2 Constriction degree (CD): up& down

=> CL/ CD/ Larynx/ Velum - classified consonants& vowels

3. Phonemes

- a sound which distinguished meaning in a language.

- in //

- a combination of speech organs' actions

4. Spectrogram: temporal concatenation of spectrum.

5. Formants: F1 and F2 are enough to disambiguate vowels.