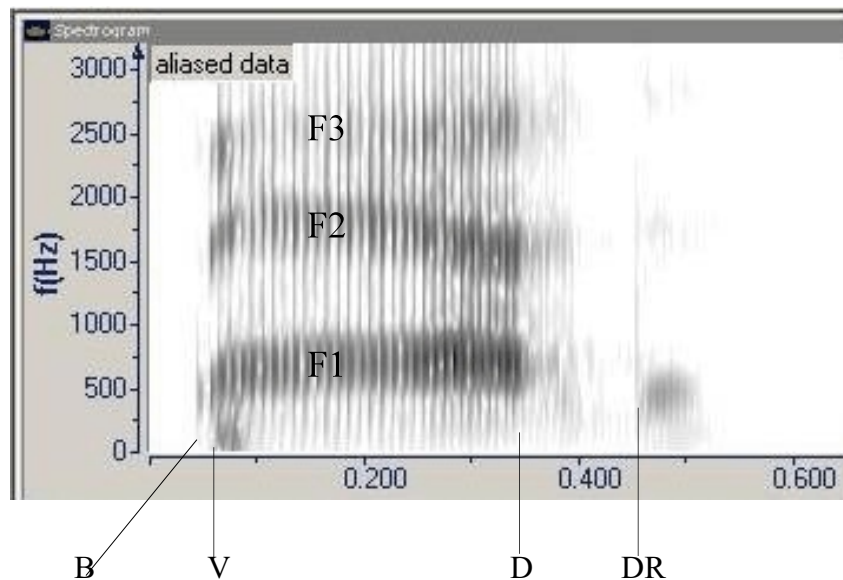


Ant/Lin 322/522 Spring 2004 Hour Exam 1 Key

Total points: 85, as indicated.

1. 2 @ 4pts, 8 pts total.
 - a. sonorants: all speech sounds whose primary noise source is in the larynx, where the vocal cords vibrate (i.e., they're ordinarily voiced); includes vowels and resonants (i.e., non-obstruents).
 - b. fricatives: class of obstruents formed with partial obstruction in oral cavity, generating turbulence perceived as friction (hissing).
2. 4 points:
 - a. stress
 - b. velarization
 - c. syllabic
 - d. voiceless
3. 16 points, as indicated:
 - a. voiceless alveodental ejective stop (4)
 - b. voiced velar fricative (3)
 - c. nasal lax mid central unround vowel (5)
 - d. tense high central unround vowel (4)
4. 13 points, as indicated:
 - a. [N] (2)
 - b. [ɑ] (4)
 - c. [œ] (4)
 - d. [β] (3)
5. 3 points: [i] : [ɪ] :: [e] : [ɛ] :: [ü] : [ö] :: [ɔ] :: [õ]
6. 6 points: The lips are open; the velum is up (the sound is oral); the tip of tongue is between the teeth. The sound is an interdental fricative, either [ð] (voiced) or [θ] (voiceless).
7. no question.
8. 10 points.



e. Fundamental frequency = 110Hz

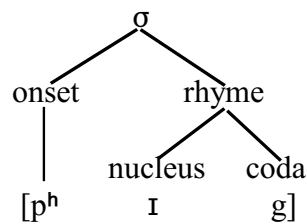
9. 5 points: The spectrogram was used to illustrate the articulatory and acoustic properties of glides, in this instance [y]. The spectrogram to the left is [ya], that to the right is [ay]. It is clear from the spectrogram that the glides are essentially moving formants that begin or end where the formants of the vowel [i] are found during the center of the articulation of the vowel. That is, in forming a glide, the tongue simply moves from or to where [i] would be pronounced.

10. 5 points:

- a. [r] is voiceless b. “tt” is tap/flap c. [t] deleted, [l] velarized and syllabic.

11. 6 points: 1, 4, 5

12. 5 points



13.4 points: The diagram illustrates a Russian palatalized consonant. While the bilabial articulation is being made, the body of the tongue takes the position of the high front nonround vowel [i]. This has the effect of making the cavity in the front of the tongue smaller and raising the perceived pitch of the consonant. In other words, the tonal properties of [i] are added to the consonant.

Scale and grades

	<u>standard bell curve (n=40)</u>
A 77–85 (7)	(4)
B 68–76 (14)	(8)
C 54–76 (16)	(16)
D fewer (2)	(8)
E	(4)