English 228 Phonology

1st Semester 2000-2001 Prof. Kassim A. Shaaban

FINAL EXAMINATION (Two Hours) January 30, 2001

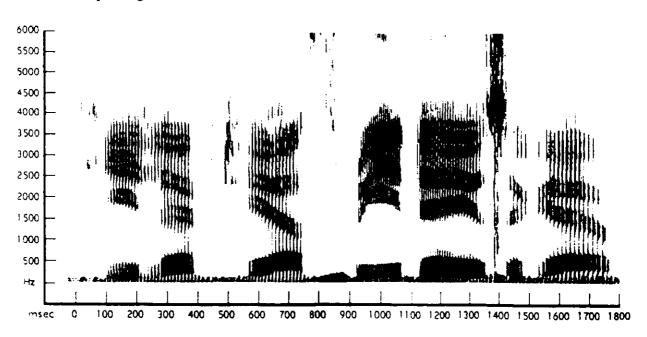
I. Ans	wer the following two questions.
A. 1. 1	Mark the following statements as TRUE or FALSE.
 -	a. Pharyngealization involves drawing the tongue back so that the pharynx is narrowed.
	b. The "motor theory of speech perception" refers to the notion that we can produce only what we can perceive
	c. There are no clear rules for how stress works in English
	d. The frequency of a sound refers to the rate of variation in air pressure in that sound.
	e. Vowel rhotacization is determined acoustically by the frequency of the third formant.
	f. People differ in their estimate of the number of syllables in words like spasm, prizm, and schism because of some mispronunciations.
-	g. Allophones of a phoneme are sound variations that are similar in structure and in complementary distribution.
	h. Children and women normally speak at a lower pitch than men do.
	1. Spectrograms provide more detailed information about sounds than waveforms do.
	 j. English accents are usually marked by differences in the way consonants are pronounced.
A. 2. E	explain briefly your answers to (c), (f), and (i). (Write your answer on eack of this page)
B. Fill in	the blanks in the following sentences with the appropriate terms.
l	phonetics is in part the study of how speech sounds are perceived.
2. Obstru	ients is a term used to refer to stops.
stress	f the challenges to specialists in speech synthesis relates to the areas of and
l. The rh	yme part of a syllable consists of the vocalic nucleus and the
lips.	ization is a secondary articulation that involves of the
within	a single
The ba	sic formant in spectrograms is indicative of a speaker's voice
Stops	nay vary in their voice onset time. In this respect, [p', t', k'] are
	stops and [b,d,g] are stops.

 9. A closed syllable is one that ends in a				
II. Answer three of the following five questions.				
A. Define five of the following terms and give examples of each.				
1. Syllabic nasals:				
2. Ejectives:				
3. Sound amplitude:				
4. States of the glottis:				
5. Anticipatory coarticulation:				
6. Phoneme:				
7. Velarization:				

В.	Make a broad phonemic	transcription of the following utterances
	(conversational style)	•

1.	Did you realize that the state of the economy is rather depressing.
2.	Despite all that happened, the two chieftains still communicate by phone.
3.	Sleazy Johnny's favorite shampoo remains head and shoulders.
4.	The illustrations provided show clearly that sentence rhythm is a function of emphasis.
5.	An opportunity like thus does not recur often enough for those who need the enlightenment.
C.	Explain how acoustic phonetics (waveforms and spectrograms) have helped contribute to the understanding of the following:
	1. Vowel height and backness:
2.	Natural classes of sounds, in particular sonorants, siblilants, and back consonants.

D. Below is a spectrogram of "He left here three days ago" uttered by a British speaker. Determine the location of each of the sounds in the utterance on the spectrogram.



E. 1. Indicate the intonation patterns that might occur in the following situations:

	situations:	
a.	What have you been thinking about all this time? (polite question)	
b.	Your actions speak loud enough. (angry statement)	
c.	Your mother is the head of the PTA! (surprise)	
d.	The policemen came to the apartment, looking for hidden evidence. (reporting	;)
e.	Are you ready for this trip? (polite question)	

E. 2. Using some of the examples in E.1, and adding to them, if necessary, explain how intonation can be phonemic.