119A Spring 2020 Midterm exam

NAME	

The questions sum up to 80 points. You get 20 points just for submitting the exam. (Total = 100 pts)

The midterm exam is due on Monday, May 11 at 8AM. No late submission will be allowed. We can answer to clarification questions via email until Friday, May 8 at 6PM. After that, we'll not answer to any questions regarding the exam.

You can either handwrite your answer and scan it or type directly on the .pdf file.

1 Short Answer (10 pts)

(1) Please explain why phonologists posit abstract underlying representations for words.

2 Contrast and allophones (20 pts)

The following data from Ganda exemplify the complementary distribution of [r] and [l].

kola	'do'	wulira	'hear'	oluganda	'Ganda language'
wawa:bira	'accuse'	olulimi	'tongue'	lagira	'command'
${\it ebendera}$	'flag'	lu:la	'ruler'	le:rwe	'railway'
sa:fali	'safari'	lwana	'lwana'	be:ra	'help'
bu:lira	'tell'	dyukira	'remember'	lia	'eat'
bu.ma	ten	Samia	remember	1ju	Car
erjato	'canoe'	lu:la	'sit'	omuliro	'fire'
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- (2) State a generalization about where [r] and [l] are found.
- (3) Which allophone is more basic (= underlying form) in Ganda, [r] or [1]? Explain your answer.
- (4) What are the underlying representations for:

'sit'	'whistle'	'accuse	' 'command'	

(5) Write a rule for deriving the distribution of Ganda liquids. Use distinctive features.

3 Underlying representations (25 pts)

The following words are some examples of numerals in Tibetan.

фig	'one'	фu	'ten'	фurgu	'nineteen'
∫i	'four'	ժեսցժելց	'eleven'	∫ibœju	'forty'
ŋa	'five'	ժյսեյն	'fourteen'	ŋabʤu	'fifty'
gu	'nine'	фила	'fifteen'	gub&u	'ninety'

- (6) What kind of syllables does Tibetan have? State schematically using the C/V bracket notation (as in "(C)VC").
- (7) What is the order of morphemes in Tibetan numerals for teens (e.g., 14) and for multiples of ten (e.g., 40)?

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"14"______"40"_____
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- (8) State a descriptive generalization about the phonological alternation you see in this problem.
- (9) What are the underlying representations and allomorphs for:

	UR	Allomorphs
'one'		
'ten'		
'four'		
'five'		
'nine'		

(10) Write the rule that derives this pattern.

4 Rules and rule interactions (25 pts)

The following paradigms from Catalan (simplified for this question) show evidence of two rules.

Masc sg	Fem sg	Gloss	Masc sg	Fem sg	Gloss
λeke	ekəkə	'that'	səyu	səyurə	'sure'
nu	nuə	'nude'	sərəðo	sərəðorə	'reaper'
∫op	∫opə	'drenched'	siβil	siβilə	'civil'
əspɛs	əspɛsə	'thick'	for	fortə	'strong'
ba∫	ba∫ə	'short'	sor	sorðə	'deaf'
tot	totə	ʻall'	san	santə	'saint'
pok	pokə	'little'	əlβi	əlβinə	'albino'
mal	malə	'bad'	pla	planə	'level'
kru	kruə	'raw'	səre	sərenə	'calm'
əskep	əskepə	'shy'	al	altə	'tall'
sεk	sɛkə	'dry'	prufun	prufundə	'deep'
gros	grosə	'large'	kur	kurtə	'short'
ko∫	koʃə	'lame'	ber	bɛrðə	'green'
brut	brutə	'dirty'	kəlen	kəlentə	'hot'
suβlim	suβlimə	'sublime'	fəkun	fəkundə	'bad'
maksim	maksimə	'maximal'	dəsen	dəsentə	'decent'

4	(11)) What are the	undarlyina r	enrecentations !	for tha	mocoulina	forms o	٠£٠
ı	11.) what are the	underlying i	epresentations i	ioi ille i	mascume	ioiiis c	π.

'all'	'sure'	'civil'
'strong'	'level'	'deen'

(12) State the two rules of Catalan in prose.

Rule 1:

Rule 2:

(13) Now formalize your two rules in terms of distinctive features, and give them names.

_		Name of the rule	Rule with distinctive features
	Rule 1		
_			
	Rule 2		

(14) How are these rules ordered with respect to each other? Support your answer with a derivation for masuline forms of 'all', 'sure', 'civil', and 'strong' below. What kind of interaction is this?

	'all (masc.)'	'sure (masc.)'	'civil (masc.)'	'strong(masc.)'
UR				
Surface form				

Rule ordering type:

(15) Now, show a derivation with the opposite (incorrect) order and give the hypothesized surface forms that the opposite (incorrect) order would produce. What kind of interaction is this?

	'all (masc.)'	'sure (masc.)'	'civil (masc.)'	'strong(masc.)'
UR				
Surface form				

Rule ordering type: