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Problem 1: Swahili (25%)

Several sets of noun prefixes, singular and plural, are illustrated in the data from Swahili given below (Perrott, 1951). Divide the noun roots into classes on the basis of which prefix set they occur with. State any semantic correlation these classes may have. Standard Swahili orthography is used.

(1) miti	'trees'	(19) kikapu	'basket'
(2) ukubwa	'size'	(20) mikono	'arms'
(3) mtumishi	'servant'	(21) watumishi	'servants'
(4) vibanda	'huts'	(22) mtende	'date palm'
(5) wazee	'old men'	(23) mtoto	'child'
(6) mkono	'arm'	(24) mti	'tree'
(7) kiti	'chair'	(25) urefu	'length'
(8) vikapu	'baskets'	(26) kitabu	'book'
(9) mtu	'man'	(27) mchungwa	'orange tree'
(10) michungwa	'orange trees'	(28) wageni	'strangers'
(11) umoja	'unity'	(29) visu	'knives'
(12) watoto	'children'	(30) watu	'men'
(13) kisu	'knife'	(31) viti	'chairs'
(14) miguu	'legs'	(32) mguu	'leg'
(15) mgeni	'stranger'	(33) kibanda	'hut'
(16) mitende	'date palms'	(34) uzee	'old age'
(17) vitabu	'books'	(35) mzee	'old man'
(18) udogo	'smallness'		

Problem 2: French (25%)

The following sentences illustrate the application or an important rearrangement transformation of French syntax. State this rule, assuming that in French there is another rule which transforms <u>de+le</u> into <u>en</u> in certain context.

(1) Il voit Pierre.

(2) Il est certain de son innocence.

(3) *Il cela voit.

(4) Il est certain de cela.

(5) *Il voit le.

(6) *Il un livre voit.

(7) *Il de cela est certain.

(8) Il voit mon ami.

(9) Il en est certain.

(10) *Il est certain en.

(11) Il voit cela.

(12) *Il mon ami voit.

(13) *Il de son innocence est certain.

(14) *Il est certain de le.

(15) Il voit un livre.

(16) Il le voit.

(17) *Il de le est certain.

(18) *Il Pierre voit.

'He sees Peter.'

'He is certain of his innocence.'

'He sees that.'

'He is certain of that.'

'He sees it.'

'He sees a book.'

'He is certain of that.'

'He sees my friend.'

'He is certain of it.'

'He is certain of it.'

'He sees that.'

'He sees my friend.'

'He is certain of his innocence.'

'He is certain of it.'

'He sees a book.'

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'He sees it.'

'He is certain of it.'

'He sees Peter.'

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Problem 3: an Austronesian language (25%)

The following data from an Austronesian language show the results of the concatenation of segments:

a. Suffixed forms

/weid-da/ [weidida] 'proceed upward' 'jump from'

/lus-san/ [lusisan]

b.Prefixed forms

/ep-pwoatol/ [amwpwoatol] 'game'

/sapw-paa/ 'world, earth' [sampaa]

/ak-keelail/ [ankeelail] 'demonstrate strength'

c.Reduplicated forms

/pap-pap/ 'swimming' [pampap] /kik-kik/ [kinkik] 'kicking' [tantat] 'writhe' /tat-tat/ /sas-sas/ [sansas] 'stagger' /dil-dil/ [dindil] 'penetrate' /sel-sel/ [sensel] 'tied' [sansar] /sar-sar/ 'fade'

Question 1: How does the process in (a) differ from those in (b) and (c)?

Question 2: Write rules to show the relationship between the lexical and phonetic forms.

Consider more data from the language:

d. /kiassi/ 'catcher' [kiassi] 'putting on airs' /kakko/ [kakko] /nappa/ 'Chinese cabbage' [nappa] /rerrer/ [rerrer] 'to be trembling'

Question 3: What would your rules have predicted the phonetic forms of the words in (c) would be? Question 4: Try to provide an explanation for why the patterns in (d) differ from those in (a,b,c).

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Problem 4: an Altaic language (25%)

The following data are from an Altaic language spoken in Siberia. The data shown below consist of nouns in various case forms.

Notes: [y] represents a voiced velar fricative; [ul] represents a high back unrounded vowel.

	Absolute	Plural	Our N	Your N	Gloss
a.	aya	ayalar	ayabuit	ayayuıt	'father'
b.	ογο	oyolor	oyobut	oyoyut	'child'
c.	at	attar	appuit	akkuit	'horse'
d.	kus	kustar	kusput	kuskut	'duck'
e.	oyus	oyustar	oyusput	oγuskut	'bull'
f.	sep	septer	seppit	sepkit	'tool'
g.	et	etter	eppit	ekkit	'meat'
h.	tobuk	tobuktar	tobukput	tobukkut	'knee'

Question 1: List the allomorphs for each of the following morphemes: 'plural marker,' 'our,' 'your,' and 'meat.' What are the underlying forms that you assume for the four morphemes?

Question 2: Give rules to account for the observed alternations.