UNIVERSITY OF ESWATINI DEPARTMENT OF AFRICAN LANGUAGES AND LITERATURE FIRST SEMESTER EXAMINATION NOVEMBER 2019

TITLE OF PAPER: INTRODUCTION TO PHONETICS AND PHONOLOGY

COURSE NUMBER: ALL103/IDE-ALL103

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS: 1. ANSWER THREE (3) QUESTIONS IN ALL.

2. CHOOSE ONE QUESTION FROM EACH SECTION.

3. MARKS WILL BE DEDUCTED FOR UNTIDY WORK, WRONG SPELLING, AND UNGRAMMATICAL SENTENCES.

4. ALL EXAMPLES SHOULD BE GLOSSED.

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

SECTION A (Answer Question One)

Question 1

a) Write the IPA symbol representing each of the following phonetic descriptions, and illustrate each of the sounds with a word in a language that contains the sound:

(42 marks)

- i) A voiced alveopalatal fricative;
- ii) A voiceless glottal fricative;
- iii) A voiceless labiodental fricative;
- iv) A low back tense vowel;
- v) A voiceless bilabial fricative;
- vi) A voiced alveolar lateral fricative;
- vii) A voiceless alveopalatal ejective affricate;
- viii) A voiceless coarticulated labiovelar stop;
- ix) A voiced velar implosive;
- x) A voiceless alveopalatal fricative;
- xi) A voiced alveolar nasal;
- xii) A voiced lateral liquid;
- xiii) A voiced lateral fricative;
- xiv) A voiced palatal approximant;
- xv) A schwa;
- xvi) A voiceless interdental fricative;
- xvii) A voiceless glottal stop;
- xviii) A low central vowel;
- xix) A high back lax vowel;
- xx) A voiceless velar fricative;
- xxi) A voiced rhotic liquid;
- xxii) A voiced alveolar affricate
- xxiii) A mid tense front vowel;
- xxiv) A low-high back diphthong;
- xxv) A voiced alveolar retroflex fricative;
- xxvi) A voiced interdental fricative;
- xxvii) A voiced glottal fricative;
- xxviii) A voiced labiodental fricative;
- xxix) A voiced bilabial fricative;
- xxx) A voiceless coarticulated labiocoronal stop;
- xxxi) A voiced bilabial implosive;
- xxxii) A low front vowel;
- xxxiii) A voiced uvular fricative;
- xxxiv) A voiced uvular nasal;
- xxxv) A voiceless bilabial aspirated stop;
- xxxvi) A mid tense back vowel;
- xxxvii) A voiceless alveolar retroflex stop;
- xxxviii) A low-high front diphthong;
- xxxix) A voiceless nasalised dental click;
- xl) A voiced lateral click
- xli) A voiceless labialised alveopalatal click;
- xlii) A voiced uvular stop;

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b) Discuss three disadvantages of using orthography/spelling instead of using phonetic symbols (6 marks)

[50 MARKS]

SECTION B Choose one question from this section

Question 2

Distinguish between the following linguistic terms and concepts. Give for each argument an example from any language:

i)	aspirated and unaspirated	(4 marks)
,	Pulmonic and glottalic airstream mechanism	(4 marks)
ii)		(4 marks)
iii)	oral and nasal speech sound;	` '
iv)	voiced and voiceless speech sound;	(5 marks)
v)	Competence and performance;	(3 marks)
vi)	Lexical and structural ambiguity.	(5 marks)

[25 Marks]

Question 3

(a) In a spectrogram, there are formants that are not linguistically significant. Name these formants and also what these formants indicate.

(3 marks)

(b) What distinguishes High pitch from Low pitch in a spectrogram?

(2 marks)

(c) Which formant frequencies indicate the following, in vowels?

i) Height

(2 marks)

ii) Backness

(d) What is the difference between front and back vowels in terms of formant frequencies? (4 marks)

(e) What distinguishes the place of articulation in a spectrogram? Discuss, with illustrations from alveolar and velar consonants. (8 marks)

(f) Compare and contrast the formant structures of the following linguistic concepts:

i) nasal and laterals;

ii) stops and fricatives

(6 marks)

[25 Marks]

SECTION C Choose one question from this section

Question 4

a) Consider the data from KiSwahili provided below and do the tasks which follow:

'carry on the back' беба 'blood' ɗamu 'bird' ndege 'rotten' mbovu 'how many' ngapi 'darkness *diza* 'news' habari 'fasten' funga 'bad' mbaja 'little ones' wadogo 'banana' ndizi

- (i) List all the pairs of allophones found in the data. (3marks)
- (ii) State the distribution of the allophones you listed in (i) above. (3 marks)
- (iii) Provide a phonemic transcription for the first five items presented in the data.

(5 marks)

b) Distinguish between accidental gaps and systematic gaps.

(4 marks)

- c) Using distinctive features, formalize the following phonological rules:
 - i) A voiceless alveolar stop becomes voiced word-finally.

(4 marks).

ii) The sequence /a/ /u/ becomes [o] when a morpheme boundary intervenes between them. (6 Marks)

[25 Marks]

Question 5

a) Consider the data below from Inuktitut a language spoken by native Canadians then do the tasks that follow:

iglumut ukiaq aiviq aniguvit aglu iglumit	"to a house" "late fall" "walrus" "if you leave" "seal's breathing hole" "from a house"
iglumit anigavit	"from a house" "because you leave"

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	pinna ani iglu panna aivuq ini ukiuq	"that one up there" "female's brother" "house" "that place up there" "she goes home" "place, spot" "winter"	
	i) ii)	List all the minimal pairs found in the data. Give all the vowel phonemes in Inuktitut, based	(7 Marks) d on the given data. (3 Marks)
b)	and the fill with a set of count agaments share?		
	i) ii) iii)	vowels and semi vowels; consonants and vowels; stops and affricates;	(5 Marks)

c) Using distinctive features, formalize the following rules:

bilabials and rounded vowels;

liquids and semi vowels

iv)

v)

i) A voiceless consonant becomes voiced intervocalically.
ii) A voiceless stop becomes voiced between vowels.
iii) The vowel /i/ is deleted before the vowel /e/.
(3 marks)
(4 Marks)
(3 marks)

[25 Marks]