International Institute of Information Technology, Hyderabad (Deemed to be University)
Subject: Speech Technology (CSE971) (Fall-2019)
Quiz 1

Maximum Time: 45 Minutes Time: 8:00 AM – 8:45 AM Max. Points: 40

Roll No.: 20171099 Programme: CLD Date of Exam.: 31-08-2019

Room No.: ..205.... Seat No. ...A.4..... Invigilators Signature:

Answer	1	2	3	4	- 5	6	7	8	9	10	Total
Maximum Points	4	4	4	4	4	4	· 4.1	4	4	4	40
Points Obtained	1	4	2/2	D	3	23/4	2	2	3	4	25/2

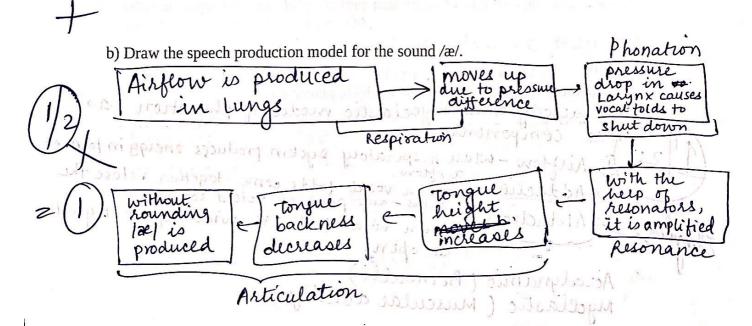
Note: Answer all the 10 questions. Answer for each question carries 4 points. Answers to each of the questions has to be written only in the appropriate places

Descent by which sound Questions by which by which

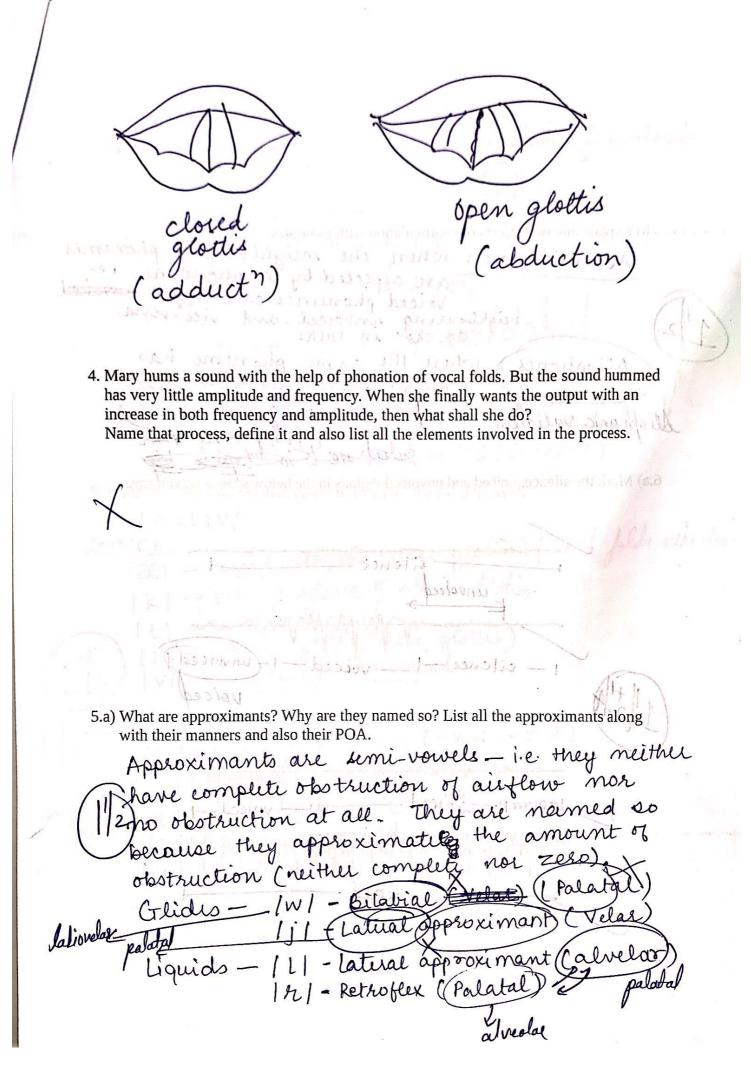
into different phonemics

1.a) Define Speech? When is speech produced?

Speech is concatenation of phones according to the rules of a language. Speech is produced when the vocal folds ribrate — due to repeated opening (abduct ") & closing (adduction)



2. Write true or false for the following:
a) The opening time of vocal folds is greater than the closing time. True
b) Lateral cricoarytenoid muscle abducts the vocal folds. False
c) Implosives are the sounds created using glottalic egressive airstream. False
d) Jaw is an articulator True
1 + 2/2 0 3 2/4 2 2 3 4 5 9 3
3.a) Write the differences between phonation and articulation. Phonation Articulation
Process by which sound is produced Descess by which sound is produced into different phonemes using different articulators Carried out by vocal to different articulators 10 different articulators in the vocal carrity.
b) Explain the aerodynamic-myoelastic model of phonation has The aerodynamic-myoelastic model of phonation has three components— airytem system produces energy in form of airytem. (2) Adduction—when vocal folds come—together relose the giothis—and produce voiced sounds. Shaptime (3) Abduction when vocal folds are wide apart reglothis is open. Aerodynamic (Bernoulli) Myollastic (Musculae activity)



b) Explain any two effects of coarticulation with examples. Assimilation: when the neighbouring are affected by Allophones 6.a) Mark the silence, voiced and unvoiced regions in the below speech waveforms silence unvolve

b) Draw the stricture for vowel sounds. There is no shickers for vavel sands
(H)
7.i) Write the phonetic transcription for (can refer to the vowel chart attached at the end) a) sixth
Isikst SIKSO (21)
b) synecdoche
Isaenekdos/ /JInekaoni
c) penguin (pegwin pengwin pengwin
d) pneumonia
d) pneumonia Inimonia nyumo aarnia
8. Write the source and system characteristics for the word 'active'.
/æktiv/
SOURCE (CORRE alottes) (vocal folde nitro dem)
1æ1 - voiced state Cuite gui
SOURCE 1201 - voiced states (close glottis) (vocal folde niho dem) [KI - velar release of velar conehictem [t] - wordered X [t] - wordered X [t] - wordered X [t] - wordered X [t] - wordered X
1t1 - unvoiced
(1/2) VI - labiodental unvoiced
(1/2) IVI - labiodental withouter
System one of he tollowing wards has a valenter wand in word-from prometry of the the classic forms.
H/2 12e1-voiced front open (unrounded)
+/2 /ae/- voiced front open (unrounded)
1. I MICH WICE COLLY
22 t - alveolar stop (unvoiced)
171 - Vould wrooms
1VI - labiodental unvoiced

Those is no elidera for vand forche	
9.1) Tick the aspirated sounds from the below underlined words	
a) potato	
band \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
2 C) tomorrow	
d) gum	
e) kettle	- 15
ii) Tick the right answer that is NOT a made as	
ii) Tick the right answer that is NOT a part of the supralayrngeal system from the following?	
a) trachea	
b) mandible 6 b 3 m + 3	
c) velum d) hard polate	
d) hald palate	
iii) Tick the right answer that is not one of the stages of the speech production process?	
a) Conceptualization	
h) articulation	
Pragmatic parsing a mulin Dingman	
d) formulation	
iv) Tick the word that has a diphthong in it.	
a) cost	
(h) cost	
(VII)	
d) cash (2010) (2010) (2010)	
v) Which one of the following has a different consonant in terms of MOA at word initial position (tick the right answer)	
a) Wheat	
b) why c) whether d) whale e) whole	
2 c) whether	
d) whale	1
whole some of the solution of	1
Vi) Which one of the feller in the second of the second of the feller in the second of	
(tick the right and the following words has a voiceless sound in word-final position?	1
vi) Which one of the following words has a voiceless sound in word-final position? (tick the right answer) dough b) sour c) doors	
dough	ķ
b) sour (c) doors d) bags (become) Total	1
c) doors	
d) bags (billion)	
d) bags (6201000000) Tolks school (1) (2) e) talks 20010 troof belowers min the interior (1)	r.
Library Library Min J	9
12 - Versed of white of the state of the s	
A - [a programmer	

10. Write the orthographic form for the following phonetic representations:

a) terk a macmant ænd aprifreit da pipal hu neva giv ap on ju

Take a moment and appreciate the people who never give up on you.

b) si felz un da si fa

Sea shells on the sea Shore

