


Review Test Submission: Quiz5

User	QIHUA GONG
Course	EN.520.645.01.FA21 Audio Signal Processing
Test	Quiz5
Started	10/28/21 2:30 PM
Submitted	10/28/21 2:45 PM
Due Date	10/28/21 3:00 PM
Status	Completed
Attempt Score	50 out of 100 points
Time Elapsed	14 minutes out of 15 minutes
Instructions	You have 15minutes to complete the quiz.
Results Displayed	All Answers, Submitted Answers, Correct Answers


Question 1

0 out of 25 points

A wideband spectrogram has:

Selected Answer:  Vertical stripes that correspond to transitions between phonemes


Answers:

-  Vertical stripes that correspond to vocal fold closings
- Horizontal stripes that correspond to the harmonics
- Vertical stripes that correspond to transitions between phonemes
- Horizontal stripes that correspond to the formants


Question 2

0 out of 25 points

The discrete STFT (short-Term Fourier Transform) can be viewed as a output of filterbank of broadband filters.

Selected Answer:  True


Answers:

- True
-  False

Question 3

25 out of 25 points

The role of pre-emphasis is

Selected Answer: 

Answer: to compensate for fall-off of high-frequency of natural speech caused by lowpass of vocal tract spectrum

Answers: ☒

to compensate for fall-off of high-frequency of natural speech caused by lowpass of vocal tract spectrum

to compensate for fall-off of high-frequency of natural speech caused by change in pitch values in each phoneme

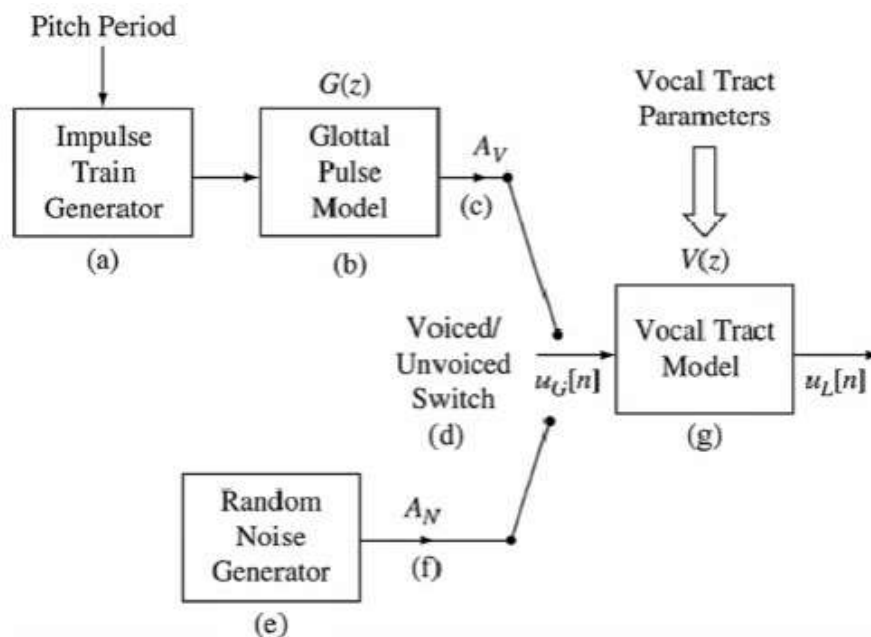
to improve pitch information to make speaker recognition easier

to compensate for fall-off of high-frequency of natural speech caused by low energy in speech formants

Question 4

25 out of 25 points

Which part of the digram below determines parameters that represent formant frequencies:

Selected Answer: ☒ (g)

Answers: (a)

(b)

(c)

(d)

(e)

(f)

☒ (g)

Thursday, April 7, 2022 7:48:55 PM EDT

← OK