

Assignment-7

1. Homographs can be defined as

A. Words with the Same Orthography having Different Meanings and Different Pronunciations

B. Words with Different Spellings and Different Meanings but have Same Pronunciations.

C. Words with the Same Orthography and Different Meanings

2. Grapheme to Phoneme is the process by which

A. Pronunciation of a word is converted to its orthographic representation

B. The parts of speech of the every word for a given sentence is determined.

C. The pronunciation of a word based on its orthographic representation is determined.

3. Which one of the following synthesis method is parametric synthesis type?

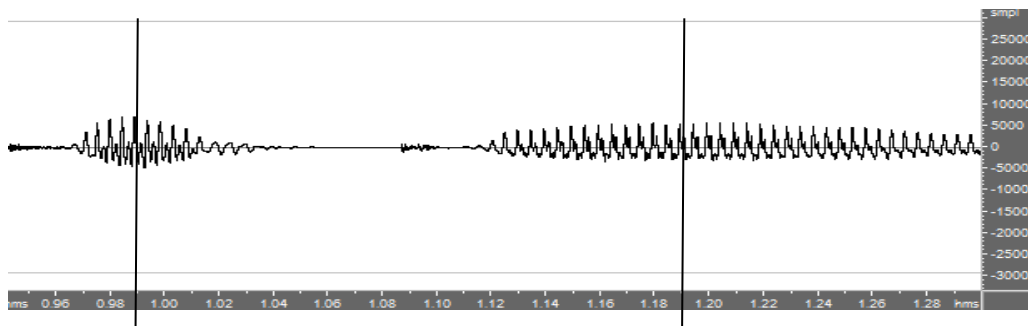
A. Di-Phone Synthesis

B. Unit selection

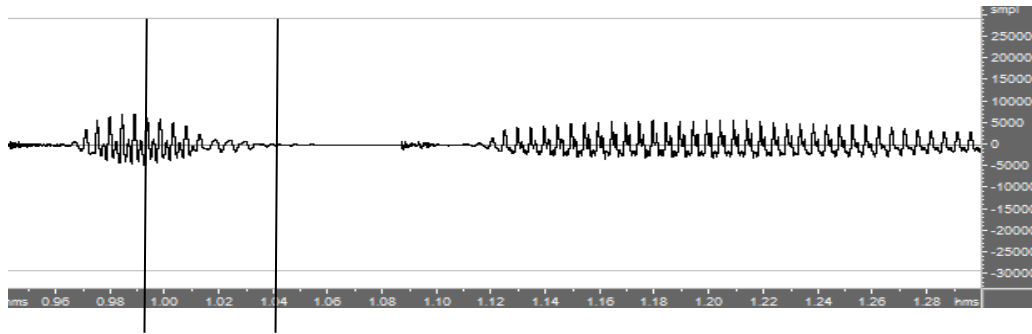
C. Element Based (ESNOLA)

D. Formant Synthesis

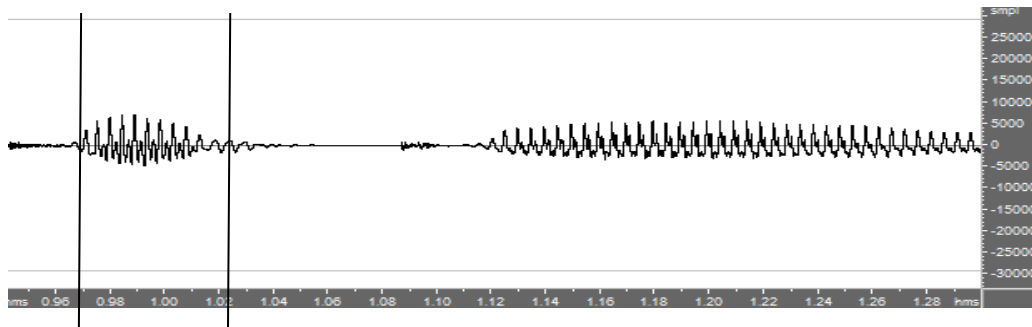
4. Which one of the following figures represents the labeling of a di-phone?



A



B



C.

5. Determine the number of consonants to vowel transitions present in the phonetic representation of the word 'bhaarat' /b^haraat/

A. 3

B. 2

C. 4

D.1

6. Which one of the following indicates the limitations of the Statistical Approach based automatic speech recognition (ASR)

A. It does not make distinction between the spoken language and the written language

B. It is possible to use higher-order statistics beyond word trigrams

C. It makes distinction between the spoken language and the written language

7. Equation (1) represents the Statistical Approach based automatic speech recognition (ASR). In this equation P(A/W) can be determine from which modeling?

$$\hat{W} = \operatorname{argmax} P(A/W).P(W)$$

A. Language modeling

B. Word modeling

C. Acoustic modeling

8. Which one of the following is ambiguous in spoken language?

A. Close

B. Record

C. flower/flour

D. Interest

9. Which one of the following is/are used as a Target cost in Unit Selection method based synthesis?

A. Phonetic context

B. Formants + other spectral characteristics

C. Energy

10. Pronunciation Lexicon Specification (PLS) of W3C is used for

A. Text to Speech Synthesis

B. Automatic Speech Recognition (ASR)

C. Both of the above