

Psych150/ Ling155
Spring 2015

Review Questions: Speech perception, word recognition, sentence processing, and speech production

Terms/concepts to know: monodegree, lack of invariance problem, Motor Theory of Speech Perception, McGurk effect, Ganong effect, priming, lexical decision, facilitation, inhibition, neighborhood density, homophone, homograph, Cohort model, TRACE model, Dual Route model, graphemes, developmental dyslexia, acquired dyslexia, parsing, incrementality, garden path sentence, global ambiguity, garden path theory, constraint-based approach, thematic relation, intransitive, transitive, ditransitive, sentential complement, slip of the tongue, tip of the tongue state, serial model, cascaded model, bidirectional cascaded model

1. The lack of invariance problem led to the development of the Motor Theory of Speech Perception (MToSP). What is the lack of invariance problem? How did the MToSP propose to solve that problem?
2. How does the McGurk effect differ from the Ganong effect?
3. Can priming occur without conscious awareness of the prime? What paradigm do researchers use to assess this possibility?
4. How does a lexical decision task work? Can lexical decision be used for both visual (written) and auditory (spoken) experiments? What is the dependent measure in lexical decision tasks?
5. Priming can cause facilitation or inhibition. How would these processes be reflected in reaction times?
6. How do homophones and homographs differ?
7. According to the Cohort model of auditory word recognition, what happens as the beginning of a word is detected?
8. What does the TRACE model predict about possibility of “speaker” and “beaker” being activated at the same time during word recognition? Why?
9. Writing systems differ in terms of the *primary* level of linguistic representations that they tap into, i.e., that symbols refer to (phonemes, syllables, morphemes). According to your book’s definitions, what are phoneme or sound systems called? What are syllable-based systems called? What are morpheme or meaning-based systems called?
10. What is the difference between developmental dyslexia and acquired dyslexia?

11. According to Pinker's 1994 NYT article, what is the Euphemism Treadmill?
12. In the context of sentence processing, what does "parsing" refer to? (2 points)
13. Verb information plays a big role in sentence parsing. Given an example of each of the following verb-related terms.
 - a. thematic relation
 - b. intransitive
 - c. transitive
 - d. ditransitive
 - e. sentential complement
14. What is the difference between a slip of the tongue and a tip of the tongue state?
15. Sound-based speech errors tend to result in real word errors more often than nonword errors. What is this referred to as?
16. In the context of speech production models, what is the difference between a serial model, a cascaded model, and a bidirectional cascaded model?