

## Unit 9 - Week 7: The Neural Basis of Language

Register for Certification exam

## Course outline

## How to access the portal

Assignment-0 (Only for self assessment; not for grading)

Week 1: Introduction to Language

Week 2: Language Development in Infants &amp; Young Children

Week 3: Speech Production and Comprehension

Week 4: Word Processing

Week 5: Sentence Processing

Week 6: Reading

Week 7: The Neural Basis of Language

 Lecture 31: Neural Basis of Word Meaning

 Lecture 32: Neural Basis of Language Comprehension

 Lecture 33: Neural Basis of Language Comprehension

 Lecture 34: Neural Basis of Language Comprehension & Production

 Lecture 35: Aphasia

 Quiz : Assignment 7

 Feedback For Week 7

 Solutions for Assignment-7

Week 8: Bilingualism

Interaction Session

## Assignment 7

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

Due on 2019-04-17, 23:59 IST

1) \_\_\_\_\_ helps in processing prosody.

- Right superior temporal sulcus  
 Right prefrontal cortex  
 Middle temporal gyrus  
 Posterior cingulate

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Right superior temporal sulcus*

2) Patients with Progressive Semantic Dementia have damaged Superior regions of the temporal lobe.

- True  
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

*False*

3) Which of the following symptoms are correct about patients suffering from agrammatical aphasia?

- They produce very short sentences.  
 Use of function words is rare.  
 Understanding of complex syntactic structures (sentences) is difficult for them.  
 All of the above.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*All of the above.*

4) \_\_\_\_\_ is likely to lead to transcortical sensory aphasia.

- Damage to the connections between the conceptual representation area and the Broca's area.  
 Damage to the connections between the Wernicke's area and the Broca's area.  
 Damage to the connections between the conceptual representation area and the Wernicke's area.  
 Damage to Wernicke's area.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Damage to the connections between the conceptual representation area and the Wernicke's area.*

5) In reference to Cortical Language Circuit proposed by Angela Friederici, which of the following statements is / are true?

- Two dorsal pathways connect the posterior temporal lobes to the frontal lobes.  
 Ventral pathways are involved in preparation of speech utterance.  
 Dorsal pathways are involved in comprehension of meaning of words.  
 All of the above.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Two dorsal pathways connect the posterior temporal lobes to the frontal lobes.*

6) Heschl's gyri of both hemispheres are activated by speech and nonspeech sounds to the same level.

- True  
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

*True*

7) According to the model (word recognition) proposed by Binder et al. in 2000, speech and non-speech sounds are separated in:

- Superior temporal gyrus  
 Superior temporal sulcus  
 Inferior temporal gyrus  
 Middle temporal gyrus

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Superior temporal sulcus*

8) According to Memory-Unification-Control model, the unification component is in:

- Left temporal lobe  
 Left inferior frontal gyrus  
 Lateral frontal cortex  
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Left inferior frontal gyrus*

9) N400 is reported to be sensitive to:

- Semantic aspects of linguistic input  
 Nonsemantic deviations  
 Both  
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Semantic aspects of linguistic input*

10) Patients of \_\_\_\_\_ make mistakes by using semantically related words in place of an intended word.

- Semantic Paraphasias  
 Deep Dyslexia  
 Both  
 None

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Both*

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