

M. Sc. (Speech- Language Pathology) Sem-I (2018 Course): WINTER – 2018
SUBJECT: NEUROBIOLOGY OF SPEECH-LANGUAGE & COGNITION

Day: Monday
Date: 10/12/2018

W-2018-3696

Time: 10.00 AM TO 01.00 PM
Max. Marks : 80

N.B.

- 1) All questions are compulsory
 - 2) The number to the right indicates full marks.
 - 3) Draw diagrams wherever necessary.
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Q.1 Attempt any **FOUR** out of six **(60)**

- a) Discuss role of attention and memory in developing adequate speech, Language and cognition. Highlight disorder of attention and memory in ABI.
- b) Illustrate neural basis of speech production. Write a brief note on age related changes in speech production at different level of speech subsystems.
- c) Discuss any two important neuro cognitive models highlighting language processing, cortico-subcortico networks of speech and cognition.
- d) Clinical significance of studying neuroanatomical and neurophysiological correlates of language in human brain. Elaborate with suitable examples with respect to ANCD.
- e) Discuss CNS Plasticity and morphological changes in neuroanatomy with respect to healthy vs pathological aging based disorders
- f) Comment on language lateralization and cerebral dominance. Discuss role of cerebral plasticity in acquired speech language disorder in children and adults.

Q.2 Attempt any **FOUR** out of six **(20)**

- a) FLS
- b) Subcortical structures for speech production
- c) Neural pathways for reading and writing
- d) Use of neuroimaging in language lateralization
- e) Bilingual organization in human brain.
- f) Neurotransmitters and it's role in learning, memory and kinesis

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