

M. Sc. (Speech Language Pathology) (2018 Course) Sem – I :
SUMMER - 2019
SUBJECT: NEUROBIOLOGY OF SPEECH-LANGUAGE AND COGNITION

Day: Tuesday
Date: 28/05/2019

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

S-2019-3970

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Answer to both the sections should be written in **RESPECTIVE** answer books.
- 5) Answer written in the inappropriate answer sheets will not be assessed in any case.

SECTION-A

Q.1 Attempt **ANY FOUR** out of **SIX**: **(60)**

- a) Clinical significance of understanding neurobiology of language and cognition in assessment and intervention of acquired neurogenic communication disorders. Comment.
- b) Discuss neural basis of verbal praxis and speech production with respect to cortico- subcortical neural substrates in human brain.
- c) Functional organization of brain with respect to language and cognition. Discuss any two principles of sensory motor organization in human brain regulating brain behavior.
- d) Highlight CNS development CNS plasticity in learning language and literacy skills.
- e) Illustrate neural basis of speech perception & semantics.
- f) Give an account on language functions in left hemisphere and right hemisphere in typical individuals vs acquired brain injury

SECTION-B

Q.2 Attempt **ANY FOUR** out of **SIX**: **(20)**

- a) Gestures, nonverbal communication in right hemisphere.
- b) Cognition and subcortical neural substrates.
- c) fMRI for language and cognition imaging.
- d) Neurophysiological changes in Pathological aging in human brain
- e) Neural basis for semantics ad syntax.
- f) Connectionist model of language

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