

FIRST YEAR M.A.S.L.P. : SUMMER - 2018
SUBJECT: SPEECH SCIENCE AND PRODUCTION

S-2018-3545

Day: Monday
Date: 18/06/2018

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

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Answer to the two sections should be written in **SEPARATE** answer books.
- 5) Answer written in inappropriate answer sheets will not be assessed in any case.

SECTION-A

Q.1 Attempt **ANY FOUR** of the following: **(60)**

- a) Discuss vocal fold physiology. What are its recent advances?
- b) Explain aerodynamics of speech production.
- c) 'Physiology of respiration for speech production'. Elaborate.
- d) What is prosody? What are the clinical implications and application of acoustic analysis of prosody?
- e) Discuss the neural control of voice production?
- f) Discuss the acoustic properties of stop consonants.

SECTION-B
(SAQ)

Q.2 Write short notes on **ANY FOUR** of the following: **(20)**

- a) Acoustic cues for stress
- b) Speech recognition system
- c) Acoustics of laughter
- d) Infant cry analysis
- e) Models of vocal fold vibration
- f) Application of speech analysis in forensic science

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