

SUBJECT : SPEECH SCIENCE & PRODUCTION

Day : Friday
Date : 22/09/2017

w-2017-3455

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 diagrams **WHEREVER** necessary.
 - 4) Answers to both the sections should be written in **SEPARATE** answer books.
 - 5) Answers written in the inappropriate answer sheets will not be assessed in any case.
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**SECTION – A
(LAQ)**

- Q.1** Attempt **ANY FOUR** out of **SIX**: **[4×15=60]**
- a) 'Breathing for speech is different from breathing to sustain life'. Justify.
 - b) Discuss in detail about acoustic theory of speech production.
 - c) Discuss the applications of speech analysis in forensic sciences.
 - d) Discuss the complexities of the neural substrata underlying laryngeal control.
 - e) Elaborate the upper and lower airway dynamics.
 - f) What are stops? Describe the acoustical properties with diagrams wherever necessary.

**SECTION – B
(SAQ)**

- Q.2** Write short notes on **ANY FOUR**: **[4×5=20]**
- a) Timing models of speech production
 - b) Bernoulli's principle
 - c) Acoustic analysis of laughter
 - d) Acoustic characteristics of pathological infant cry
 - e) Fricatives and Diphthongs
 - f) Speaker verification

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