

**SECOND YEAR M.A.S.L.P. : WINTER - 2018**  
**SUBJECT: HEARING DEVICES**

Day: Monday  
Date: 22/10/2018

**W-2018-3715**

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

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**N.B:**

- 1) All questions are **COMPUSLORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Answers to the two sections should be written in **SEPARATE** answer books.
  - 4) Draw diagrams **WHEREVER** necessary.
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**SECTION-A**

**(L. A. Q.)**

**Q.1** Attempt **ANY FOUR** of the following: **(15 x 4 = 60)**

- a) Discuss the fundamentals of communication systems in detail with appropriate examples
- b) Describe in detail recent advances in technology of hearing aids and its implications
- c) Discuss national and international standards of EAC measurements. Explain recent advances available for evaluating various ALD systems
- d) "In recent future Objective measures will substitute Subjective measures of hearing aids selection and fitting process" Do you agree or disagree? Justify
- e) Discuss the need of careful selection of types, designs, features & speech processing strategies of cochlear implant.
- f) Describe various types of ALD's and EPD along with its recent advances

**SECTION-B**

**(S.A.Q.)**

**Q.2** Write a note on **ANY FOUR** of the following; **(4 x 5 = 20)**

- a) Channel vs Bands in hearing aids and its implications
- b) Tinnitus maskers
- c) Importance of NRT, ESRT and EABR
- d) Analogue to digital converters and its application
- e) Satellite communication
- f) Implications of Auditory Brainstem implant

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