

**M. Sc. (Audiology) (2018 Course) Sem – I : SUMMER - 2019**

**SUBJECT: HEARING SCIENCES**

Day: Thursday  
Date: 30/05/2019

**S-2019-3980**

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

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**N.B.:**

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

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

- a) Describe the pitch perception of simple and complex signal in normal hearing and those with hearing impairment.
- b) Describe the critical band concept and power spectrum law.
- c) Describe the factors affecting loudness perception.
- d) Describe the factors affecting pitch perception.
- e) Explain the auditory filter shapes in normal hearing and those with hearing impairment.
- f) Describe the physiological models of loudness and pitch perception.

**SECTION-B**

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

- a) Describe the pitch scales and its importance.
- b) Explain the phenomenon of difference limen of frequency.
- c) Describe method of obtaining psychophysical tuning curves.
- d) Explain the concept of Central masking.
- e) Describe Co-modulation masking release phenomenon in normal as well as client with hearing impairment.
- f) Describe the Loudness scales.

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