

**MASTER OF SCIENCE (AUDIOLOGY)**  
**M.Sc. (AUDIOLOGY) Sem-I : WINTER :- 2021**  
**SUBJECT: HEARING SCIENCES**

Day : Thursday  
Date 07-Apr-2022

W-19537-2021

Time : 10:00 AM-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) Draw neat and labelled diagram **WHEREVER** necessary.
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**Q.1** Attempt **ANY FOUR** out of the **SIX** of the following **4 × 15 = 60**

- a) What is receiver operating curve? Explain its importance in clinical audiology.
- b) Describe various factor affecting loudness perception.
- c) Explain pitch perception of pure tones and complex tones across normal hearing and individuals with hearing impairment.
- d) Describe the critical band and power spectrum model.
- e) Discuss the effect of cochlear hearing loss on auditory filters.
- f) Describe co – modulation masking release on normal hearing and individuals with hearing impairment.

**Q.2** Attempt short notes on **ANY FOUR** out of the **SIX** of the following

**4 × 5 = 20**

- a) Filters and their properties
- b) Classical methods of threshold estimation
- c) Informational masking
- d) Psychophysical tuning curve
- e) Pitch Scales
- f) Equal loudness contour

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