

M.Sc. (AUDIOLOGY) SEM. – I (2018 COURSE) : WINTER 2018
SUBJECT : HEARING SCIENCES

Day : Wednesday
Date : 12/12/2018

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

W-2018-3702

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
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Q.1 Attempt **ANY FOUR** out of six of the following.

[4 x 15 = 60]

- a) Describe the theory of signal detection and write its application in the field of Audiology.
- b) Describe the phenomenon of loudness perception in normal hearing individual and individuals with hearing impairment.
- c) Discuss the concept of difference limen of intensity, frequency and duration. Explain the methods of DLF.
- d) Write factors affecting loudness perception.
- e) Discuss Pitch perception of pure tone and complex tone by normal hearing and persons with hearing impairment
- f) Discuss the concept of critical band. Write different types of masking.

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

[4 x 5 = 20]

- a) Psychophysical tuning curves
- b) Co-modulation masking release
- c) Central Masking
- d) Pitch scales
- e) Loudness scales
- f) Softness imperceptions

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