

F.Y.B.A.S.L.P. (2013 Course): Winter-2018

SUBJECT: INTRODUCTION TO HEARING & HEARING SCIENCES

Day: Wednesday

Time: —

Date: 05-12-2018

Max. Marks: 10

W-2018-3662

N.B.:

- 1) Put a  $\checkmark$  mark in the appropriate box below the questions number once only.
- 2) Use **blue/ Black** ball point pen only.
- 3) Each question carries **ONE** mark.
- 4) Students will not be allotted mark if he/ she overwrites strikes or put white ink on the cross once marked.
- 5) MCQ sheet will be taken back after **10 minute**.

SECTION-A

Q.1 MCQ:

- 1) Sone is a unit of \_\_\_\_\_.
  - a)  Loudness
  - b)  Loudness level
  - c)  Both a and b
  - d)  Intensity
- 2) The maximum permissible ambient noise levels for audiometric test rooms for supra-aural headphone is \_\_\_\_\_ dB.
  - a)  30
  - b)  26
  - c)  25
  - d)  29
- 3) The stapedius muscle is innervated by the \_\_\_\_\_ nerve.
  - a)  Facial
  - b)  Trigeminal
  - c)  Mandibular
  - d)  Occular
- 4) Interaural attenuation is highest for \_\_\_\_\_ transducers.
  - a)  Insert
  - b)  Circumaural
  - c)  Supra-aural
  - d)  Both a and b

P. T. O.

- 5) The lowest level at which speech can be identified 50% at time during speech audiometry.
- Speech Recognition Threshold
  - Speech Reception Threshold
  - Both a and b
  - None of the above
- 6) The distance covered by one octave on audiogram must be equal to the distance covered by \_\_\_\_\_ dB.
- 10
  - 20
  - 25
  - 30
- 7) If Bing test reveals positive response, then it is suggestive of \_\_\_\_\_.
- SNHL
  - Normal hearing sensitivity
  - Conductive hearing loss
  - Both a and b
- 8) 'Olivocochlear bundles' is a part of \_\_\_\_\_.
- Ascending auditory pathway
  - Descending auditory pathway
  - Peripheral auditory system
  - Both a and b
- 9) Over masking occurs when \_\_\_\_\_.
- $MN_N \leq (IA + BC_{TE})$
  - $MN_N = (IA + BC_{NTE})$
  - $MN_N \geq (IA + BC_{TE})$
  - Both a and b
- 10) Rollover effect can be determined in which of the following \_\_\_\_\_.
- SAT
  - Masking
  - PI- PB function
  - None of the above

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Day: Wednesday  
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**W-2018-3662**

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 70

**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 **SEPARATE** answer book.
- 4) Draw neat diagrams **WHEREVER** necessary.
- 5) Answers written in the inappropriate answer sheets will not be assessed in any case.

**SECTION - B**

- Q.2** Attempt any **FIVE** out of **SIX**: **(5×3=15)**
- a) Need of pure tone audiometry.
  - b) Action Potential
  - c) Methods of limits.
  - d) DL for Frequency and Intensity.
  - f) Free field Vs Diffused field testing.
  - g) Criteria for masking during AC and BC testing.

- Q.3** Attempt any **FOUR** out of **FIVE**: **(4×5=20)**
- a) Write a note on Weber test.
  - b) Write a note on phone and sone with appropriate example and states its relation.
  - c) Write a note on construction of Audiometric room.
  - d) Explain Naunton's dilemma.
  - e) Give an account on Role of speech audiometry in audiology.

**SECTION-C**

- Q.4** Attempt the following: **(2×10=20)**
- a) Define is Masking. Explain various types of masking with appropriate clinical applications. Write in brief about factors affecting masking.
  - b) Explain physiology of middle ear.
- Q.5** Attempt any **ONE** out of **TWO**: **(1×15=15)**
- a) Describe various causes of hearing loss.
  - b) Define calibration and its types. Explain electroacoustic calibration of output intensity using Radioear- B-71 bone vibrator.

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