

T.Y.B.A.S.L.P. (2013 Course) Winter-2018.  
SUBJECT : NOISE MEASUREMENT & HEARING CONSERVATION

Day : Monday  
Date : 10-12-2018

Time : —  
Max. Marks : 10

W-2018-3676

N.B.:

- 1) Put a  in the appropriate box below the question number once only.
- 2) Use blue ball point pen only.
- 3) Each question carries **ONE** mark.
- 4) Students will not be allotted mark if he/she overwrites strikes or puts blue ink on the tick once marked.
- 5) MCQ sheet will be taken back after half an hour.

SECTION – A

- 1) MIHL is \_\_\_\_\_.
  - a)  Permanent
  - b)  Temporary
  - c)  Fluctuating
  - d)  Conductive
- 2) 125Hz, 250Hz, 500Hz are \_\_\_\_\_.
  - a)  Octave frequencies
  - b)  Half octave frequencies
  - c)  One third octave frequencies
  - d)  Narrow bands
- 3) Gun fire noise is classic example of \_\_\_\_\_.
  - a)  Impulse noise
  - b)  Sudden noise
  - c)  Unsteady noise
  - d)  Steady noise
- 4) A sound level meter measures the following parameters of the sound \_\_\_\_\_.
  - a)  Frequency
  - b)  Intensity
  - c)  Duration
  - d)  All of the above
- 5) In which type of presbyasis, hearing aid is least effective \_\_\_\_\_.
  - a)  Sensory
  - b)  Neural
  - c)  Mechanical
  - d)  Metabolic

P.T.O.

- 6) Clinically which of the following audiometric configuration is seen in noise induced hearing loss \_\_\_\_\_.
- a)  AC notch at 4KHz
  - b)  BC notch at 2KHz
  - c)  BC notch at 500Hz
  - d)  BC peak at 3KHz
- 7) The 'A' weighing network resembles the equal loudness contour of the normal ear at the loudness levels of \_\_\_\_\_.
- a)  20 phons
  - b)  40 phons
  - c)  60 phons
  - d)  100 phons
- 8) As per OSHA (1981) permissible noise exposure level for 8 hr/day is \_\_\_\_\_.
- a)  80 dBA
  - b)  90 dBA
  - c)  85 dBA
  - d)  75 dBA
- 9) The unit of noisiness is \_\_\_\_\_.
- a)  Leq
  - b)  Noise dose
  - c)  Noy
  - d)  Mel
- 10) NRR refers to \_\_\_\_\_.
- a)  Noise reduction rule
  - b)  Noise reduction ratio
  - c)  Noise reduction rating
  - d)  Noise reduction reflex

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**SUBJECT : NOISE MEASUREMENT & HEARING CONSERVATION**

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Date : 10/12/2018

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

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw diagram **WHEREVER** necessary.
  - 4) Answer each section in the respective answer sheet only.
  - 5) Answers written in the inappropriate answer sheets will not be assessed in any case.
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**SECTION – B [SAQ] : 35 Marks**

**Q.2** Write short notes on **ANY FIVE** of the following: **[15]**

- a) Audioanalgesia
- b) Damage risk criteria
- c) Noise dosimeter
- d) Acaustic trauma
- e) Insertion loss
- f) AAOO formula

**Q.3** Attempt **ANY FOUR** of the following: **[20]**

- a) Describe the effect of noise on communication.
- b) Explain techniques of noise control.
- c) Noise induced hearing loss.
- d) Articulation index.
- e) The Environment Protection Act.

**SECTION – C [LAQ] : 35 Marks**

**Q.4** Attempt the following questions: **[20]**

- a) Explain the auditory effects of noise.
- b) Elaborate on different types of EPDs.

**Q.5** Attempt **ANY ONE** of the following: **[15]**

- a) Justify the importance of various audiological tests in assessing hearing loss in individuals exposed to long duration noise. Comment on most suitable test battery for assessing individuals with NIHL.
- b) Write an essay on Hearing Conservation Program.