

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**  
**THIRD YEAR**  
**PAPER V – NOISE MEASUREMENTS AND HEARING CONSERVATION**

*Q.P. Code: 802325*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Instrumentation and Procedure for various indoor and outdoor noise measurements.
2. What are the non – auditory effects of noise?
3. Explain any five acts related to noise.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Speech Interference Level.
2. Explain the tests of susceptibility.
3. Damage Risk Contours.
4. Instrumental calibration of headphones.
5. Distinguish between temporary threshold shift and permanent threshold shift.
6. Attenuation characteristics of various Ear Protective Devices (EPD's).
7. Explain Perceived noise in dB (PNdB) and Perceived noise level (PNL).
8. What are the different sources of noise?

**III. Short answers on:**

**(10 x 3 = 30)**

1. Signal to noise ratio (SNR).
2. Fletcher point eight formula.
3. Effects of noise on work efficiency and performance.
4. Steps in hearing conservation program.
5. Distinguish between ear muffs and Helmets.
6. Audiological findings in NIHL.
7. Compound threshold shift.
8. Metabolic changes due to noise exposure.
9. Impact Noise.
10. Write a note on test environment for performing audiological evaluation.

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