

[LG 0215]

FEBRUARY 2015

Sub.Code :2325

**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. Effects of noise on hearing.
2. Instrumentation and procedure for indoor and outdoor measurement of ambient noise.
3. Need for hearing conservation program and steps in hearing conservation program.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Damage Risk Criteria and procedure to establish damage risk criteria.
2. Environmental protection Agency and OSHA.
3. Advantages of ear plugs.
4. Noise control.
5. Assessment of community noise.
6. Worker training program.
7. Two procedures on Audit program effectiveness.
8. Effects of noise on work efficiency and performance.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Impulse noise 2. fluctuating noise.
2. The risk of significant permanent damage versus repeated exposure to noise.
3. Time weighted average equivalent.
4. Difference between noise isolating headphones and noise cancelling headphones.
5. "Noise free hours" and its importance.
6. Common noise exposure levels in dBA scale for a) jet engine. b) average conversation, c) thunderclap d) food blender.
7. Expand a) PNdB b) PNL c) EPNL d) NL
8. Articulation Index and Speech Interference Level.
9. Audio analgesic effects on central nervous system.
10. Tests for susceptibility.

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