

Time: 2 hours

29/4/2012

Master Degree Audiology
First Part (Acoustics)

All questions must be answered:

1-Give short account on:

- Relationship between sound pressure & distance.
- Diffraction and its relation to sound frequency.
- Adaptation and Fatigue.
- Transition point in threshold estimation.

2-Discuss the following:

- Duplex theory.
- Minimal audibility curve.

3- Define force, velocity & momentum and mention the relation between them.

4-Put () or (x) and explain why:

- Two sounds of 10^{-6} w/m^2 intensity presented simultaneously will have an intensity level equal to 63 dB ().
- If a sound is increased from 1 to 2 KHz, the pitch is increased from 1 to 2 mels ().