

國立臺北護理學院九十七學年度碩士班招生

聽 語 障 礙 科 學 所

聽 力 科 學 試 題

注 意	1.請用 <u>中文或英文</u> 作答。 2.請標明題號依序於 <u>答案卷</u> 上作答。
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1. Please define the following terms : (20 分，每小題 5 分)
 - (a) deci-Bel Sound Pressure Level root-mean-square
(dB SPL rms)
 - (b) Pressure gain provided by the outer ear
 - (c) impedance matching of the middle ear
 - (d) tuning curve of the auditory nerve fiber
2. Please describe the structure of the middle ear. (20 分)
3. Please describe the traveling wave observed from the functioning cochlea. (20 分)
4. Please describe the characteristics of type I auditory nerve, including high-spontaneous, medium-spontaneous and low- spontaneous firing rates fibers. (20 分)
5. Please describe the evidence of using inter-aural time and inter-aural intensity differences in sound localization based on the findings in acoustics, psychoacoustics, and neurophysiology. (20 分)