

國立臺北護理健康大學 102 學年度碩士班招生
聽語障礙科學研究所碩士班
聽力科學 試題

注意	1.本試題共有 <u>1</u> 頁。 2.請用中文或英文作答。 3.請於答案卷上標明題號，並依序作答。
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申論題 (共 5 題，每題 20 分，共 100 分)

1. Please describe the function of the Eustachian tube and discuss how failure of the Eustachian tube to function properly may lead to dysfunction of the auditory system.
2. Please describe the process by which sound is transferred through air to the cochlear fluid.
3. Please describe the transduction mechanism of the cochlea, through which the hydrodynamic energy is converted into neural impulses.
4. Please describe how the pure tone audiogram was constructed as well as the information which could be obtained from the pure tone audiogram.
5. Please describe the following terms of the psychoacoustics:
 - 1) Psychometric function for hearing threshold
 - 2) Equal loudness contour
 - 3) Sound localization
 - 4) Dichotic listening