

PG Degree Regular/Supplementary Examinations in Otorhinolaryngology (M.S)**Paper I – Basic sciences related to Otolaryngology****Time : Three Hours****Maximum : 100 Marks****Essay: (20)**

1. Explain the physiology of the vestibulo-ocular reflex (VOR) with schematic diagrams of the reflex arc that trigger specific eye muscle movements. Write a brief outline of history taking in a patient presenting with sudden onset giddiness & unsteadiness. Explain HINTS and its clinical significance.

Short Essays (8 x10 = 80)

2. Discuss in detail, the ultrastructure of the cochlea. How does transduction occur?
3. Describe the ostiomeatal complex (OMC) of the left nose. Describe the surgical importance of anatomical variations in the nose and paranasal sinuses.
4. Describe the physiology of olfaction. How can it be tested in the outpatient setting?
5. Describe framework of larynx with suitable diagrams with special mention of its ligaments. Briefly describe spaces within the larynx and their clinical importance. Describe the nerve supply.
6. Describe physiology of deglutition. Discuss the evaluation of the patient with chronic aspiration. Add a note on the cricopharyngeus muscle and its surgical importance?
7. What statistical analyses are appropriate for different research questions? How do you interpret odds ratios & relative risks.
8. What is meant by innate and adaptive immunity? Describe the mechanisms of immunologically mediated tissue damage.
9. What are the medicolegal aspects to be kept in mind by the practicing ENT surgeon? Explain with reference to patient and disease factors.