

**RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER**  
**SYLLABUS OF COMPETITIVE EXAMINATION FOR THE**  
**POST OF ASSISTANT PROFESSOR (Broad Speciality)**  
**OTO RHINO LARYNGOLOGY - HEAD & NECK**  
**MEDICAL EDUCATION DEPARTMENT**

**Applied Embryology and Applied Anatomy** of Nose and paranasal sinuses, mandible, Ear, Vestibular system, Temporal bone, Oral cavity, Pharynx, Larynx, tracheobronchial tree, oesophagus, Neck (including salivary glands, thyroid, parathyroids, neck spaces etc.), orbit, skull base including related meningeal system and brain, Central Auditory/Speech/Language/Vestibular areas, cranial nerves, related lymphovascular and neural systems.

**Applied Physiology** of phonation, speech & language, breathing, respiration, lacrimation, sound and hearing, balance system including peripheral and central vestibular pathways, smell, taste, mastication, swallowing, CSF physiology, cranial nerve functions.

**Clinical Methods** for assessment and evaluation of structure/function/pathology of Nose and paranasal sinuses, mandible, Ear, Temporal bone, Face, Oral cavity, Pharynx, Larynx, tracheobronchial tree, oesophagus, Neck (including salivary glands, thyroid, parathyroids, neck spaces etc.), orbit, skull base (including related meningeal system and brain, cranial nerves etc.), Speech & Language etc.

Applied physics, equipment, methodology, interpretation of various tests for **Audiological** evaluation and their application in different clinical scenarios and different age groups.

Applied physics, equipment, methodology, interpretation of various tests of **Vestibular** evaluation and their application in different clinical scenarios and different age groups.

**Medical Education Technology** including (but not limited to) competence based medical education, integrated teaching, newer teaching tools and methods etc.

**Research Methodology** including (but not limited to) various research designs, biostatistics and related factors like sampling, bias etc.

**Basics of Evidence based Medicine and Good Clinical Practice.**

Principles, technique and clinical applications of various **facial aesthetic, plastic** (including but not limited to Rhinoplasty, Otoplasty, Pinna reconstruction) and **reconstructive** procedures and newer advancements in E.N.T., Head-Neck and Skull Base pathologies.

**General pathologic aspects** such as wound healing and also Pathology and Pathogenesis of E.N.T. diseases, Pharmacology, genetics, cytology, haematology, blood transfusion and immunology as applicable to otolaryngology.

Principles, techniques and clinical applications of various **targeted therapies** for various Otorhinolaryngologic, Skull Base and Head & Neck tumors including (but not limited to) Gene therapy, molecular biology and immunotherapy etc.

Principles, techniques and applications of various **chemotherapeutic agents** related to Otorhinolaryngologic, Skull Base and Head & Neck tumors.

Principles, techniques and newer modalities of management of **trauma and emergencies** in Otorhinolaryngologic, Skull Base and Head & Neck (including but not limited to fractures, CSF leaks, foreign bodies, airway obstructions, bleeding, face and neck injuries, hearing loss, vertigo etc.).

Principles and techniques of **Anaesthesia** in Otorhinolaryngologic, Skull Base and Head & Neck procedures/surgeries including newer modalities.

**Pathology, clinical presentation, diagnosis and medical/surgical/rehabilitative management** of various diseases of ear, nose, throat, Head-neck, skull base region, larynx, trachea, oesophagus (including but not limited to congenital, developmental, inflammatory, infectious, neoplastic, traumatic, neurological, immune and idiopathic disorders).

Evaluation and management of various **Skull Base Disorders** (including but not limited to Pituitary, orbit, CP Angle, various cranial fossa, Infratemporal/pterygopalatine fossa, clivus etc.).

Principles of management of ear, nose, throat, Head-neck, skull base region disorders **in pediatric and geriatric** population.

Principles of **Preventive and Community Medicine** related to ear, nose, throat, Head-neck, skull base region disorders.

Principles of diagnosis, evaluation and management of **sleep disorders**.

**Recent advances** in the field with relevant technological concepts and their clinical applications. It includes (but not limited to) computers, lasers, powered instrumentations, energy delivery devices, navigations, endoscopes, hearing aids and implants, cochlear and brain stem implants, stereotactic radiosurgery, gamma knife, cyber knife, robotics, various ultrasonic devices for surgery, Optical Fluorescence, Microscopes etc.

Concepts, technique, clinical applications and interpretations of various related **Radiological** investigations, radiological interventions and newer modalities in E.N.T., Head-Neck and Skull Base pathologies.

Concepts, technique and clinical applications of various related **Radiotherapeutic** modalities and newer advancements in E.N.T., Head-Neck and Skull Base pathologies.

Concepts, technique, clinical applications and interpretations of various related **Nuclear Medicine** modalities and newer advancements in E.N.T., Head-Neck and Skull Base pathologies.

Principles of medical **Jurisprudence and Ethics** in clinical practice.

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**Pattern of Question Papers:**

- 1. Objective Type Paper**
- 2. Maximum Marks: 150**
- 3. Number of Questions: 150**
- 4. Duration of Paper: 2.30 Hours**
- 5. All Questions carry equal marks**
- 6. There will be Negative Marking**  
(For every wrong answer one-third of the marks prescribed for that Particular question shall be deducted.)