THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MS 0524] **MAY 2024** **Sub. Code: 4013**

M.S. DEGREE EXAMINATION

BRANCH IV – OTO-RHINO-LARYNGOLOGY

PAPER I – BASIC SCIENCES RELATED OTOLARYNGOLOGY

Q.P. Code: 224013

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Origin, Insertion, Nerve Supply &Action of Tensor Tympani and Stapedius Muscles.
2. Middle Turbinate.
3. Parapharyngeal space.
4. Broncho Pulmonary Segments.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Theories of Hearing.
2. Functions of Para Nasal Sinus.
3. Physiology of Voice Production.
4. Functions of Tracheostomy.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. Composition of Cerebro Spinal Fluid.
2. Liver Function Test and ENT Diseases.
3. Bio Chemical changes occurred in Chronic Dysphagia.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Pharmaco Therapy for Sudden Sensory Neural Hearing Loss.
2. Nasal Decongestants.
3. Amphotericin – B.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Pathogenesis of Otospongiosis.
2. Pathogenesis of Allergic Rhinitis.
3. Pathogenesis of Retro Pharyngeal Abscess.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Angio Invasive Fungus.
2. EBV (Ebstien Barr Virus).
3. Organisms involved in Atrophic Rhinitis.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MS 1224] **DECEMBER 2024** **Sub. Code: 4013**

(OCTOBER 2024 EXAM SESSION)

M.S. DEGREE EXAMINATION

OTO-RHINO-LARYNGOLOGY

PAPER I – BASIC SCIENCES RELATED OTOLARYNGOLOGY

Q.P. Code: 224013

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Course of vertical segment of facial Nerve and its surgical importance.
2. Osteomeatal complex.
3. Retropharyngeal space.
4. Applied anatomy of thoracic part of esophagus.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Physiology of Balance.
2. Vomeronasal organ and its functions.
3. Stages of Swallowing.
4. Sneeze Reflex.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. Perilymph.
2. Thyroid function test.
3. Biochemical changes after Tracheostomy.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Vestibular sedatives.
2. Antihistamines.
3. Chemotherapy in Head & Neck Malignancy.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Pathogenesis of Meniere's Disease.
2. Spread of Glottic malignancy.
3. Pathogenesis Atrophic rhinitis.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Rhinosporidium Seeberi.
2. Mycobacterium Tuberculi.
3. Human Papilloma Virus.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MS 0525] **MAY 2025** **Sub. Code: 4013**

M.S. DEGREE EXAMINATION

OTO-RHINO-LARYNGOLOGY

PAPER I – BASIC SCIENCES RELATED OTOLARYNGOLOGY

Q.P. Code: 224013

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Chaissaignac triangle.
2. Internal acoustic meatus.
3. Frontal recess.
4. Facial recess.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Physiology of Hearing.
2. Cough reflex.
3. Physiology of Taste.
4. Function of Inner hair cells.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. Respiratory acidosis.
2. Stem cell therapy.
3. Biochemical changes in CSF of Fungal meningitis.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Levodropropizine.
2. Intra nasal steroids.
3. 2% Lignocaine.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Follicular adenoma thyroid.
2. Angiofibroma.
3. Pathology of Meniere disease.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Aspergillous fumigatus.
2. HPV.
3. Cornye bacterium diphtheria.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MS 1025] **OCTOBER 2025** **Sub. Code: 4013**

M.S. DEGREE EXAMINATION

OTO-RHINO-LARYNGOLOGY

PAPER I – BASIC SCIENCES RELATED OTOLARYNGOLOGY

Q.P. Code: 224013

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Mucosal folds in Middle ear.
2. Nasolacrimal duct.
3. Vidian nerve.
4. Retropharyngeal node.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Physiology of salivation.
2. Nasal cycle.
3. Physiological changes after Tracheostomy.
4. Physiology of speech.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. β – Trace protein
2. Salivary secretion.
3. Biochemical changes in CSF in case of bacterial meningitis.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Immunotherapy in allergic rhinitis.
2. Neoadjuvant chemotherapy.
3. Itraconazole.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Necroptosis.
2. Healing by secondary intention.
3. FNAC – How to do? Advantages of USG clinical FNAC.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Organism of Vincent angina.
2. Streptococci.
3. Cyanobacterium – Microcystis aeruginosa.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MS 0526] **MAY 2026** **Sub. Code: 4013**

M.S. DEGREE EXAMINATION

OTO-RHINO-LARYNGOLOGY

PAPER I – BASIC SCIENCES RELATED OTOLARYNGOLOGY

Q.P. Code: 224013

Time: Three Hours **Maximum: 100 Marks**

Write notes on:

I. ANATOMY: **(4 x 5 = 20)**

1. Development of Inner Ear.
2. Cottle's Area.
3. Inferior Constrictor Muscle.
4. Recurrent Laryngeal Nerve.

II. PHYSIOLOGY: **(4 x 5 = 20)**

1. Theories of Failure of Pneumatization of Mastoid air cell system.
2. Functions of Nose.
3. Stages of Deglutition.
4. Three Tier Mechanism of Larynx.

III. BIO-CHEMISTRY: **(3 x 5 = 15)**

1. Bio Chemical changes during Chronic Stridor.
2. Biochemistry of Inner ear fluid.
3. Thyroid Function Test.

IV. PHARMACOLOGY: **(3 x 5 = 15)**

1. Medical Management for Acute stage of Meniere's Disease.
2. Pharmacotherapy for Ethmoidal Polyposis.
3. Radiosensitizers.

V. PATHOLOGY: **(3 x 5 = 15)**

1. Pathogenesis and Stages of TB Larynx.
2. Pathogenesis of Nasopharyngeal Carcinoma.
3. Pathogenesis of Acoustic Neuroma.

VI. MICROBIOLOGY: **(3 x 5 = 15)**

1. Rhinosporidium Cell Cycle.
2. Micro biology of Chronic Otitis Media.
3. Aural Swab Methods.

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