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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2022
PAPER I

Friday, April 01, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ Answer ALL the questions.

☞ Essay questions:

1. Discuss the anatomy and functions membranous labyrinth. (15 marks)

2. Describe using neat labeled diagram branchial apparatus and its derivatives. (15 marks)

3. Write short notes on:

3A. Transtuzumab

3B. Tests for non organic deafness

3C. Fossa of Rosenmuller

3D. Olfactory pathway

3E. Tests for facial nerve function

3F. Retropharyngeal space

3G. Pterygopalatine fossa

3H. Adductors of larynx

3I. Retrovirus

3J. Analysis of fine needle aspiration cytology report

(7 marks × 10 = 70 marks)



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PAPER II

Saturday, April 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay questions:**

1. Discuss the management of otosclerosis.

(15 marks)

2. Discuss congenital nasal cysts.

(15 marks)

3. **Write short notes on:**

3A. Sphenopalatine artery ligation

3B. Surgical approaches to the petrous apex

3C. Meatoplasty

3D. Le fort II fracture

3E. Treatment of Meniere's disease

3F. Management of CSF rhinorrhoea

3G. Treatment of sleep apnoea

3H. Lupus vulgaris of the nose

3I. Otitic hydrocephalus

3J. Investigations done in facial nerve palsy

(7 marks × 10 = 70 marks)



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PAPER III

Monday, April 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Essay questions:

1. Discuss the recent advances in biomaterials and their applications in Otolaryngology and Head and Neck surgery.

(15 marks)

2. Discuss the indications, clinical workup and technique of auditory brainstem implantation.

(15 marks)

3. Write short notes on:

3A. Vibrant sound-bridge

3B. Minimal invasive thyroid surgery

3C. Endoscopic anterior skull base surgery

3D. Current concepts and ethical issues in Laryngeal transplantation

3E. Sialendoscopic surgeries in chronic sialadenitis

3F. Recent trends in management of medullary thyroid cancer

3G. Indications for trans-oral laser surgery

3H. Image Guided Radiation Therapy

3I. Stennert's protocol in the management of acute peripheral facial paralysis.

3J. Stroboscopy

(7 marks × 10 = 70 marks)



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PAPER IV

Tuesday, April 05, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Draw neat-labeled diagrams/ flow charts wherever necessary.

✍ Long essay questions:

1. Discuss the differential diagnosis of white patch on the vocal cord in a 47-year-old male. Enumerate the advantages of CO₂ laser assisted resection of T1aN0Mx malignancy of the glottis over radiation therapy.

(15 marks)

2. Enumerate the causes of apyrexial stridor in children. Discuss in detail the clinical features and management of acute epiglottitis in a 3-year-old child.

(15 marks)

3. Short essay questions:

3A. Clinical stages and management of dehydration

3B. Management of corrosive injury of the esophagus

3C. Contraindications for tonsillectomy

3D. Clinical features of Ludwig's angina

3E. Esophageal speech

3F. Branchial cyst

3G. Prognosticators in leukoplakia

3H. Management of sulcus vocalis

3I. Multiple Endocrine Neoplasia syndrome

3J. Management of nasopharyngeal carcinoma

(7 marks × 10 = 70 marks)

