

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

Monday, October 03, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Discuss the anatomy of compartments of larynx with suitable diagrams. (15 marks)

2. Discuss the transformer mechanism of middle ear. (15 marks)

3. **Write short notes on:**
 - 3A. Montelukast
 - 3B. Polysomnography
 - 3C. Cerebellopontine angle
 - 3D. Evidence based medicine and its applications in ENT
 - 3E. Restorative gene therapy
 - 3F. Tone decay test
 - 3G. Nasal cilia
 - 3H. Human papilloma virus
 - 3I. Postural tests
 - 3J. Drawbacks of PET scan

(7 marks × 10 = 70 marks)



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PAPER II

Tuesday, October 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay questions:**

1. Describe the clinical features and management of attic cholesteatoma. (15 marks)

2. Classify the benign tumors of the nose and paranasal sinuses and discuss the management of fibrous dysplasia. (15 marks)

3. **Write short notes on:**

- 3A. Sociococcus
- 3B. Rhinolalia aperta
- 3C. Classification of surgeries for obstructive sleep apnea syndrome
- 3D. Septorhinoplasty
- 3E. Recurrent furuncle of the external ear
- 3F. Lautenslager's operation
- 3G. Intratympanic dexamethasone
- 3H. Perilymph gusher
- 3I. Tripod fracture
- 3J. Epley's Maneuver

(7 marks × 10 = 70 marks)



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PAPER III

Thursday, October 06, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss the principles of the organ preservation protocols in the management of local advanced head and neck cancers. (15 marks)

2. Discuss the role of endoscopic approach to lateral skull base (15 marks)

3. **Write short notes on:**
 - 3A. Tumor angiogenesis in head and neck cancer
 - 3B. Intratympanic gentamycin
 - 3C. Palatal reconstruction following total maxillectomy
 - 3D. Superior mediastinal neck dissection
 - 3E. Sentinal lymph node biopsy
 - 3F. Scintigraphy in ENT
 - 3G. Properties of an ideal biomaterial
 - 3H. Rapid arc radiotherapy
 - 3I. Endoscopic facial nerve dissection
 - 3J. Photodynamic therapy in laryngeal cancer.

(7 marks × 10 = 70 marks)



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PAPER IV

Friday, October 07, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Long essay questions:**

1. Describe the various types of acute laryngotracheal trauma and their management
(15 marks)

2. Describe the clinical features and management of parapharyngeal tumours.
(15 marks)

3. **Write short notes on:**

- 3A. Velopharyngeal incompetence
- 3B. Recurrent laryngeal papillomatosis
- 3C. Tracheostomy tubes
- 3D. Deltopectoral flap
- 3E. Ludwig's angina
- 3F. Puberphonia
- 3G. Wound healing
- 3H. Papillary Carcinoma of the thyroid gland
- 3I. Occult neck node
- 3J. Pleomorphic adenoma of the parotid gland

(7 marks × 10 = 70 marks)

