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MANIPAL UNIVERSITY

MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER I: BASIC SCIENCES RELATED OTOLARYNGOLOGY

Tuesday, October 06, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essay:

1. Describe the anatomy and clinical significance of ostiomeatal complex. Discuss the investigations done to assess the ostiomeatal complex.

(15 marks)

2. Discuss the basic physiology of thyroid gland. Add a note on its surgical anatomy and triangles in relation to it.

(15 marks)

3. Write short notes on:

3A. Radiosensitizers and radioprotectors

3B. Principle and interpretation of Brain stem evoked response audiogram

3C. Floor of mouth

3D. p53 gene

3E. Impact factor of a journal

3F. Paraglottic space

3G. Ototoxic drugs

3H. Mechanism of immunoglobulin production by tonsils

3I. Otolith

3J. Supravital staining and its application in ENT

(7 marks × 10 = 70 marks)



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## MANIPAL UNIVERSITY

MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER II: PRINCIPLES AND PRACTICES OF OTOLARYNGOLOGY

Wednesday, October 07, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the role of polysomnogram in the evaluation of obstructive sleep apnea syndrome. (15 marks)
2. Discuss the steps of stapedotomy in detail. (15 marks)

3. **Write short notes on:**

- 3A. Perilymph fistula
- 3B. Rhinitis medicamentosa
- 3C. Pendred syndrome
- 3D. Augmentation rhinoplasty
- 3E. Causes and management of impacted foreign body in the ear
- 3F. Malignant rhinosporidiosis
- 3G. Smell identification tests
- 3H. Mastoid obliteration techniques
- 3I. Orbital blow-out fracture
- 3J. Non surgical management of traumatic CSF rhinorrhoea

(7 marks × 10 = 70 marks)



## MANIPAL UNIVERSITY

MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2015

SUBJECT: PAPER III: RECENT ADVANCES IN OTOLARYNGOLOGY AND HEAD &amp; NECK SURGERY

Thursday, October 08, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays:

1. Discuss the indications and technique of trans-oral laser supraglottic laryngectomy. (15 marks)
2. Discuss the endoscopic approaches to the central skull base. (15 marks)

3. Write short notes on:

- 3A. PET-CT scan in head neck oncology
- 3B. Endoscopic thyroid surgery
- 3C. Bilateral cochlear implant surgery
- 3D. Sialo-lithotripsy
- 3E. Targeted therapy for head and neck cancers
- 3F. Recent trends in the management of medullary carcinoma of the thyroid
- 3G. Endoscopic endo-nasal surgeries of the lacrimal sac
- 3H. Cyber knife
- 3I. Endoscopic middle ear surgery
- 3J. Coblation assisted tonsillectomy

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2015****SUBJECT: PAPER IV: GENERAL SURGICAL PRINCIPLES AND HEAD - NECK SURGERY**

Friday, October 09, 2015

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 tumor behavior of malignancy of the supraglottis and describe its management. (15 marks)
2. Describe the etiopathology, clinical features and management of acute retropharyngeal abscess. (15 marks)

3. Short Essay Questions:

- 3A. Management of hypovolemic shock
- 3B. Tracheo-esophageal puncture
- 3C. Fine needle aspiration cytology
- 3D. Laryngomalacia
- 3E. Percutaneous tracheostomy
- 3F. Management of pharyngeal pouch
- 3G. Erythroplakia
- 3H. Differential diagnosis of unilateral tonsillar enlargement
- 3I. Laser posterior transverse cordotomy
- 3J. Laryngo-pharyngeal reflux

(7 marks × 10 = 70 marks)

