

## MANIPAL UNIVERSITY

## MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2014

## SUBJECT: PAPER I: BASIC SCIENCES RELATED OTOLARYNGOLOGY

Tuesday, April 01, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

**Health Sciences Library**

✍ **Long Essays.**

1. Describe in detail the physiology of nose and paranasal sinuses.

(15 marks)

2. Describe the anatomy of middle ear mucosal folds and spaces.

(15 marks)

3. **Write short notes on:**

3A. Sphenopalatine foramen

3B. Impedance matching mechanism of middle ear

3C. Parapharyngeal space

3D. Ansa cervicalis

3E. Spaces of larynx

3F. Pure tone audiometry

3G. Osteomeatal complex

3H. Vestibulo-ocular reflex

3I. Fronto-ethmoidal air cells

3J. Lincoln's highway

(7×10 = 70 marks)



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## MANIPAL UNIVERSITY

MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2014

SUBJECT: PAPER II: PRINCIPLES AND PRACTICES OF OTOLARYNGOLOGY

Wednesday, April 02, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

Health Sciences Library

✍ Long Essays.

1. Discuss the complications of functional endoscopic sinus surgery.

(15 marks)

2. Discuss the classification and management of glomus tumours.

(15 marks)

3. Write short notes on:

3A. Transverse fracture of the temporal bone

3B. Rhinosporidiosis

3C. Lateral sinus thrombosis

3D. Management of allergic rhinitis

3E. Bondy's mastoidectomy

3F. Trans-sphenoidal hypophysectomy

3G. Ototoxicity

3H. Labyrinthitis

3I. Hump nose

3J. Choanal atresia

(7×10 = 70 marks)



## MANIPAL UNIVERSITY

## MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2014

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

Thursday, April 03, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays.

Health Sciences Library

1. Discuss in detail implantable hearing devices.

(15 marks)

2. Discuss endoscopic neck dissection in detail.

(15 marks)

3. Write short notes on:

3A. ENT applications of embolization technique

3B. Biofilms in rhinosinusitis

3C. HPV virus in head and neck malignancy

3D. Virtual endoscopy

3E. Coblation

3F. Sonotubometry

3G. Endoscopic thyroid surgery

3H. Cetuximab

3I. Trans-oral robotic surgery

3J. Sialoendoscopy

(7×10 = 70 marks)



## MANIPAL UNIVERSITY

MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2014

SUBJECT: PAPER IV: GENERAL SURGICAL PRINCIPLES HEAD NECK SURGERY

Friday, April 04, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

Health Sciences Library

✍ Long Essays.

1. Discuss the types, indications and complications of selective neck dissection. (15 marks)

2. Discuss the etiopathology, clinical features and management of subglottic stenosis. (15 marks)

3. Write short notes on:

3A. Submucous fibrosis

3B. Hashimoto's thyroiditis

3C. Thyroplasty

3D. Laryngeal mask ventilation

3E. Sjogren's syndrome

3F. Microlaryngeal surgery

3G. Nasolabial flap

3H. Pleomorphic adenoma

3I. Absorbable sutures

3J. Pharyngocutaneous fistula

(7×10 = 70 marks)

