

**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2017****SUBJECT: PAPER I: BASIC SCIENCES RELATED OTOLARYNGOLOGY**

Tuesday, October 03, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Describe the anatomy and surgical importance of middle ear mucosal folds and spaces.  
(15 marks)
2. Describe the surgical anatomy of the larynx with relevant diagrams.  
(15 marks)

3. **Write Short notes on:**

- 3A. Vidian nerve
- 3B. Tone decay test
- 3C. Sphenopalatine ganglion
- 3D. Physiology of taste
- 3E. Development of nose
- 3F. Central vestibular connections
- 3G. Killian's dehiscence
- 3H. Barium swallow
- 3I. Frontoethmoidal air cells
- 3J. Nasal valve

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2017**  
**SUBJECT: PAPER II: PRINCIPLES AND PRACTICES OF OTOLARYNGOLOGY**

Wednesday, October 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Describe the indications and technique of posterior tympanotomy.

(15 marks)

2. Discuss in detail the clinical features and management of rhino-orbital mucormycosis.

(15 marks)

3. **Write short notes on:**

3A. Traumatic perforation of the tympanic membrane

3B. Radio-allergo-sorbent test

3C. Mondini deformity

3D. Pre-operative evaluation before aesthetic rhinoplasty

3E. Role of hyperbaric oxygen therapy in malignant otitis externa

3F. Rhinomanometry

3G. Prevention of CSF rhinorrhoea during endoscopic sinus surgery

3H. Iatrogenic facial nerve palsy

3I. Lefort type II fracture

3J. Surgical treatment for Meniere's disease

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2017****SUBJECT: PAPER III: RECENT ADVANCES IN OTOLARYNGOLOGY AND HEAD NECK SURGERY**

Thursday, October 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss the use of CO<sub>2</sub> LASER in ENT.

(15 marks)

2. Discuss brainstem implant in detail.

(15 marks)

3. **Write short notes on:**

3A. PET scan in head neck oncology

3B. Minimally invasive thyroid surgery

3C. Fully implantable hearing aid

3D. Laryngeal transplantation

3E. Sialendoscopy

3F. Scintigraphy in ENT

3G. Trans-oral robotic surgery

3H. Gamma knife

3I. Endoscopic middle ear surgery

3J. Stroboscopy

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – OCTOBER 2017****SUBJECT: PAPER IV: GENERAL SURGICAL PRINCIPLES AND HEAD – NECK SURGERY**

Friday, October 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

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

✍ **Long essay question:**

1. Discuss the evaluation and management of a 63-year-old male presenting with progressive dysphagia of 3 months duration and hoarseness of one month duration.

(15 marks)

2. Discuss the rationale, complications and post-operative sequel of radical neck dissection.

(15 marks)

3. **Short essay questions:**

3A. Tissue expanders

3B. Blom-Singer's voice prosthesis

3C. Causes of aspiration pneumonia

3D. Management of T1bN0Mx malignancy of glottis

3E. Contact granuloma

3F. Complications of parapharyngeal abscess

3G. Oral candidiasis

3H. Management of only functioning ectopic thyroid

3I. Laryngocoele

3J. Keratosis pharyngis

(7 marks × 10 = 70 marks)

