

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

Monday, April 03, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Describe the surgical anatomy of the larynx with relevant diagrams.

(15 marks)

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

(15 marks)

3. **Write short notes on:**

3A. Wallerian degeneration

3B. Sphenopalatine artery

3C. Rhinomanometry

3D. Membranous labyrinth

3E. Cochlear echoes

3F. *Corynebacterium Diphtheriae*

3G. Blood supply of ossicles

3H. Impedance matching mechanism

3I. Pharyngeal phase of deglutition

3J. Short increment sensitivity index

(7 marks × 10 = 70 marks)



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

Tuesday, April 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Enumerate the causes of pulsatile tinnitus and discuss the management of Glomus jugulare tumor.

(15 marks)

2. Discuss in detail the etiopathogenesis of chronic maxillary sinusitis and outline its management.

(15 marks)

3. **Write short notes on:**

3A. Prevention of baro-traumatic otitis media

3B. Non allergic rhinitis with eosinophilia syndrome

3C. Pierre Robin syndrome

3D. External rhinoplasty

3E. Clinical features of malignant otitis externa

3F. Nasal myiasis

3G. Temporary threshold shift

3H. Type II tympanoplasty

3I. Nasal bone fracture reduction

3J. Management of allergic rhinitis

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY

MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2017

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

Wednesday, April 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss the role of robotic surgery in head & neck oncology and their limitations. (15 marks)
2. Discuss the recent developments in the ossicular chain reconstruction. (15 marks)

3. **Write short notes on:**

- 3A. Role of psycho-oncological evaluation in head & neck cancers
- 3B. Endoscopic thyroid surgery
- 3C. Hybrid cochlear implant
- 3D. Endoscopic excision of nasopharyngeal angiofibroma
- 3E. Cetuximab
- 3F. Image guided radiation therapy
- 3G. Trans-oral laser surgery for glottic cancer
- 3H. Voice prosthesis
- 3I. Endoscopic stapedotomy
- 3J. High speed laryngeal imaging

(7 marks × 10 = 70 marks)



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

Thursday, April 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 3-year-old child presenting with stridor of 3 days duration.

(15 marks)

2. Discuss the complications of tracheostomy.

(15 marks)

3. **Short essay questions:**

- 3A. Factors affecting wound healing
- 3B. Monofilament suture materials
- 3C. Achylasia cardia
- 3D. Management of T3N1Mx malignancy of pyriform fossa
- 3E. Singers nodule
- 3F. Retropharyngeal abscess
- 3G. Oral sub-mucous fibrosis
- 3H. Management of left vocal cord paralysis
- 3I. Plunging ranula
- 3J. Dysphagia lusoria

(7 marks × 10 = 70 marks)

