

**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2015****SUBJECT: PAPER I: BASIC SCIENCES RELATED OTOLARYNGOLOGY**

Wednesday, April 01, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Discuss the macroscopic and microscopic anatomy of the olfactory area. Briefly describe the investigations done to assess olfactory function.

(15 marks)

2. Discuss the impedance matching mechanism of middle ear.

(15 marks)

3. **Write short notes on:**

3A. Superior laryngeal nerve block

3B. Clinical applications of impedance audiometry

3C. Pterygopalatine fossa

3D. Conioscopy

3E. Type 1 hypersensitivity reaction

3F. Paraglottic space

3G. Cochlear microphonics

3H. Indication and contraindication of digital subtraction angiography

3I. EGFR (epidermal growth receptor factor)

3J. Selective oncolytic virus

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2015****SUBJECT: PAPER II: PRINCIPLES AND PRACTICES OF OTOLARYNGOLOGY**

Thursday, April 02, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**✍ Answer ALL the questions.****✍ Long Essays.**

1. Describe the clinical features and management of chronic frontal sinusitis.

(15 marks)

2. Discuss the differential diagnosis of unilateral conductive hearing loss with intact tympanic membrane and outline its management.

(15 marks)

3. **Write short notes on:**

3A. Prevention of noise induced hearing loss

3B. Drug induced rhinitis

3C. Treacher-Collin`s syndrome

3D. Tip-plasty of the nose

3E. Management of malignant otitis externa

3F. Clinical features of rhinoscleroma

3G. Otoplasty for microtia

3H. Contraindications for stapedectomy

3I. Tripod fracture

3J. Intratympanic Gentamicin therapy

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2015****SUBJECT: PAPER III: RECENT ADVANCES IN OTOLARYNGOLOGY AND HEAD NECK SURGERY**

Saturday, April 04, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Discuss the indications and technique of balloon sinuplasty.

(15 marks)

2. Discuss the recent trends in implantable hearing devices.

(15 marks)

3. **Write short notes on:**

3A. Intensity Modulated Radiotherapy

3B. Sublingual immunotherapy for allergic rhinitis

3C. Drug eluting sinus stents

3D. Recent trends in vocal cord medialisation

3E. Botulinum toxin therapy in ENT

3F. Photodynamic therapy in head & neck cancers

3G. Trans-oral robotic surgery

3H. Temperature controlled radiofrequency ablation

3I. Powered instrumentation in endoscopic sinus surgery

3J. Contact endoscopy in ENT

(7 marks × 10 = 70 marks)



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

Monday, April 06, 2015

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 4-year-old child presenting with hoarseness of 4 months duration and stridor of 4 days duration.

(15 marks)

2. Discuss the technique and immediate complications of emergency tracheostomy.

(15 marks)

3. **Short essay questions:**

3A. Factors affecting wound healing

3B. Selective neck dissection

3C. Plummer-Vinson syndrome

3D. Management of T3N1Mx malignancy of glottis

3E. Muscle tension dysphonia

3F. Complications of retropharyngeal abscess

3G. Oral sub-mucous fibrosis

3H. Risk stratification of papillary carcinoma of thyroid

3I. Lingual thyroid

3J. Dysphagia lusoria

(7 marks × 10 = 70 marks)

