

MANIPAL UNIVERSITY**MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER I: BASIC SCIENCES RELATED OTOLARYNGOLOGY**

Monday, April 18, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Describe the anatomy of hypopharynx. Briefly describe the investigations done to assess the hypopharynx.

(15 marks)

2. Discuss the mucociliary clearance mechanism of paranasal sinuses. Enumerate the factors that impede the drainage mechanism.

(15 marks)

3. **Write short notes on:**

3A. Bacterial flora of nasopharynx

3B. Hearing tests in an infant

3C. Blood supply of tympanic membrane

3D. p53 gene

3E. Nasal cytology

3F. EcoG (Electrocochleography)

3G. Mucolytics

3H. Advantages of brachytherapy

3I. Bills bar

3J. Marginal zone

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY

MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2016

SUBJECT: PAPER II: PRINCIPLES AND PRACTICES OF OTOLARYNGOLOGY

Tuesday, April 19, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays.**

1. Describe briefly the indications, technique and complications of modified radical mastoidectomy.
(15 marks)

2. Discuss the clinico-pathological stages of various granulomatous conditions of the nose and outline their management.
(15 marks)

3. **Write short notes on:**

- 3A. Otitic barotrauma
- 3B. Contact neuralgia
- 3C. Waardenburg syndrome
- 3D. Maurice H. Cottle
- 3E. Bell's palsy
- 3F. Odontogenic tumors of the nose and paranasal sinuses
- 3G. Types of Grommets
- 3H. Overlay myringoplasty
- 3I. Lefort type III fracture
- 3J. Management of allergic fungal rhinosinusitis

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER III: RECENT ADVANCES IN OTOLARYNGOLOGY AND HEAD NECK SURGERY**

Wednesday, April 20, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss the role of concurrent chemo-radiotherapy in head and neck cancer. What are their advantages, disadvantages and limitations?

(15 marks)

2. Discuss the recent trends in the management of frontal sinusitis.

(15 marks)

3. **Write short notes on:**

3A. Recent trends in the management of tinnitus

3B. Human papilloma virus

3C. Role of imaging in otology

3D. Bullard's Laryngoscope

3E. Diagnostic sialo-endoscopy

3F. Laryngo-pharyngeal reflux: Diagnosis and management

3G. Sonotubometry

3H. Induction chemotherapy

3I. Middle ear implants

3J. Video-Strobokymography

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MS (OTORHINOLARYNGOLOGY) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER IV: GENERAL SURGICAL PRINCIPLES HEAD – NECK SURGERY**

Thursday, April 21, 2016

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 aetiology of vocal cord palsy and its management.

(15 marks)

2. Describe in detail the surgical approaches in the management of juvenile nasopharyngeal angiofibroma.

(15 marks)

3. **Write short notes on:**

3A. Oesophageal perforation

3B. Supraglottic laryngectomy

3C. Nasogastric tube syndrome

3D. Warthin's tumor

3E. Sulcus vocalis

3F. Coniotomy

3G. Tuberculous lymphadenitis

3H. Medullary carcinoma of thyroid gland

3I. Carotid blow-out

3J. Laryngeal papillomatosis

(7 marks × 10 = 70 marks)

