

Roll no.

P-2716

M.S. EXAMINATION, APRIL, 2008
M.S. – E.N.T. (Otorhinolaryngology)
(Paper – I)
(Anatomy & Physiology)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Describe mucosal folds and middle ear spaces. Discuss their role in middle ear ventilation. 25 marks
2. Enumerate deep neck spaces. Describe in detail anatomy of Para-pharyngeal space & method of drainage of its abscess. 25 marks
3. Write short notes on :
 - (i) Ostio-meatal complex 10 marks
 - (ii) Microanatomy of olfactory bulb 10 marks
 - (iii) Levels of neck nodes and their clinical significant 10 marks
 - (iv) Pharyngeal phase of deglutition 10 marks
 - (v) Sinus of Morgagni 10 marks

Roll no.

P-2717

M.S. EXAMINATION, APRIL, 2008
M.S. – E.N.T. (Otorhinolaryngology)
(Paper – II)
(Clinical & Applied)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Discuss causes of dysphagia in a 45 years male. How would you treat a case of carcinoma middle 1/3 of oesophagus. 25 marks
2. Discuss the surgical management and extensions of angiofibroma nasopharynx. 25 marks
3. Write short notes on : 10 marks each
 - (i) Radiofrequency surgery
 - (ii) Optic nerve in endoscopic sinus surgery
 - (iii) Pre-epiglottic space
 - (iv) Bill's Bar
 - (v) Intensity modulated radiotherapy

Roll no.

P-2718

M.S. EXAMINATION, APRIL, 2008
M.S. – E.N.T. (Otorhinolaryngology)

(Paper – III)

(Recent Advances)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Discuss obstructive sleep apnea syndrome. 20 marks
2. Discuss fungal sinusitis. 15 marks
3. Discuss current concepts in neuro-radiological diagnosis of acoustic neuroma. 15 marks
4. Write notes on : 10 marks each
 - (a) Extended uses of endoscopic sinus surgery
 - (b) Embolization in E.N.T.
 - (c) Differences between Hodgkins and non Hodgkins lymphoma
 - (d) Otoacoustic emission (OAE)
 - (e) Percutaneous tracheostomy

M. S. EXAMINATION, April/May 2009

ENT

Paper First

(Basic Sciences)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss endoscopic anatomy of the nose and paranasal sinuses describing the anatomic variations. 25
2. Write short notes on the following :
 - (a) Frontal sinus 9
 - (b) Sphenopalatine artery 9
 - (c) Rec. laryngeal nerve 7
3. Describe briefly the following :
 - (a) Intrinsic muscles of larynx 9
 - (b) Lymphatic drainage of tongue 9
 - (c) Stapes 7
4. Describe the following :
 - (a) Membranous labyrinth 9
 - (b) Virtual otoscopy 9
 - (c) Ultrasound of the neck 7

20

Roll No.

P-46

M. S. EXAMINATION, April/May, 2009

E. N. T.

Paper Second

(Principles and Practice of Otolaryngology)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss pathogenesis, clinical features and management of Thyroid storm. 26
2. Discuss aetiopathogenesis, clinical features and management of orbital complications of rhino-sinusitis. 25
3. Describe pathogenesis, correlative audio-vestibular profile and management of Meniere's disease. 25
4. Write briefly on the following : 8 each
 - (a) Gene therapy in Head and Neck Cancer
 - (b) Sluder's neuralgia
 - (c) Congenital Aural atresia—management

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M. S. EXAMINATION, April/May, 2009

E. N. T.

Paper Third ,

**(Pathology and Operative Otorhinolaryngology,
Allied Specialities)**

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss the operative management of CA Maxilla. 20
2. Discuss the complications of mastoid surgery. 20
3. Write short notes on the following :
 - (i) Management of CSF Rhinorrhoea 10
 - (ii) Facial reconstruction with local cutaneous flaps 10
4. Write short notes on the following : 8 each
 - (i) Percutaneous tracheostomy
 - (ii) Feeding gastrostomy
 - (iii) Facial-Hypoglossal anastomosis
 - (iv) Petrosotomy
 - (v) Endoscopic optic nerve decompression

M. S. EXAMINATION, April/May 2009

E. N. T.

Paper Fourth

(Recent Advances)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss "noise pollution" and its ill effects. Describe the modalities for prevention of noise induced hearing loss. 20
2. Discuss the following : 10 each
 - (a) Surgical importance of external carotid artery
 - (b) PET scan and its role in head and neck cancer
3. Describe the following : 10 each
 - (a) Middle ear implants
 - (b) Bone Anchored Hearing Aid (B. A. H. A.)
4. Write notes on the following : 8 each
 - (a) Oncogenic virus
 - (b) Botulinum toxin in E. N. T. practice
 - (c) Smoker's larynx
 - (d) Iatrogenic deafness
 - (e) Immunotherapy in allergic rhinitis

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PG- E-1

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS ENT
(PAPER ONE)**

BASIC SCIENCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Describe the anatomy of auditory pathway and theories of hearing. (20)
- Q. 2. Describe the anatomy of larynx. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Nerve of pterygoid canal
 - b. Anterior skull base
 - c. Vestibulo- ocular reflex
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Otolith
 - b. Regional chemotherapy
 - c. Pre-epiglottic space
 - d. Onodi cell
 - e. Tc - 99

X

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011**MS ENT
(PAPER TWO)****OTOLOGY, AUDIOLOGY, RHINOLOGY, LARYNGOLOGY, HEAD & NECK SURGERY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Discuss intracranial complications of CSOM in posterior cranial fossa. (20)
- Q. 2. A 50 years old male patient comes to ENT OPD with complaints of persistent hoarsness of voice of 6 month's duration. Discuss D/D and managements. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Infranuclear traumatic facial nerve paralysis
 - b. Management of nasopharyngeal angiofibroma
 - c. Radical neck dissection
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Retropharyngeal abscess
 - b. BERA
 - c. Plummer Winsome syndrome
 - d. Wegner's granuloma
 - e. Current status of FESS

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS ENT
(PAPER THREE)**

PATHOLOGY & OPERATIVE OTRHINO LARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Discuss the clinical application of Oto-Acoustic Emissions(OAE) and their rationale. (20)
- Q. 2. Discuss the assessment of nasal functions. (20)
- Q. 3. Write in brief: (3 x 10 = 30)
- a. CSF Rhinorrhoea.
 - b. Parapharyngeal abscess
 - c. Conservative Laryngectomy
- Q. 4. Write short notes on: (5 x 6= 30)
- a. Lingual tonsils
 - b. Peri-lymphatic gusher
 - c. Warthins tumor
 - d. CO2 Laser
 - e. Grading of facial nerve injuries.

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS ENT
(PAPER FOUR)**

RECENT ADVANCES & GENERAL SURGICAL PRINCIPLES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Discuss sino-nasal fungal infections. (20)
- Q. 2. Discuss etiology, investigations and treatment for S.S.N.H.L. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Voice rehabilitation after total laryngectomy.
 - b. Middle turbinate in ESS.
 - c. Compare the different methods of tonsillectomy
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Ballon sinuplasty
 - b. Tumour markers in E.N.T.
 - c. Middle ear implants
 - d. Image guided surgery
 - e. Tinnitus masking

POST GRADUATE EXAMINATION, APRIL- 2012

MS OTORHINOLARYNGOLOGY

(PAPER ONE)

PRINCIPLES & PRACTICE OF BASIC SCIENCES IN OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagnosis.

- Q. 1.** Discuss the current concepts of “middle ear mechanics” in normal and diseased ears. (20)
- Q. 2.** Discuss the anatomy of paranasal sinuses in relation to FESS. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Sigmoid sinus
 - b. Vidian nerve
 - c. Little’s area
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Nasal septum with diagram of its blood and nerve supply
 - b. ENT manifestation of AIDS
 - c. Physiology of olfaction
 - d. Facial recess
 - e. Cribriform plate

POST GRADUATE EXAMINATION, APRIL- 2012

MS OTORHINOLARYNGOLOGY

(PAPER TWO)

PRINCIPLES & PRACTICE OF OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Enumerate the causes of vocal cord paralysis and discuss the management of Idiopathic vocal cord paralysis of 8 month's duration. (20)
- Q. 2.** Discuss the various anatomical variation of sphenoid sinus. Discuss various surgical approaches to the sphenoid sinus. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Frontal mucocele its clinical presentation and management
 - b. BPPV
 - c. Selective Neck Dissection
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Choanal Atresia
 - b. Dix Hall Pike test in ENT practice
 - c. High risk factors in new born in profound sensory neural hearing loss
 - d. Oto-^{c/o}acoustic emissions
 - e. Role of endoscopic surgery in traumatic ^{OP}autic neuropathy

POST GRADUATE EXAMINATION, APRIL- 2012
MS OTORHINOLARYNGOLOGY
(PAPER THREE)
PATHOLOGY & OPERATIVE OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Classify cholesteatoma. Discuss the principles of spread of disease due to cholesteatoma. (20)
- Q. 2.** Classify neck dissections. How will you manage chylous leak after neck dissection? (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Deep cervical fascia
 - b. Allergic fungal rhinosinusitis
 - c. Atrophic rhinitis
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Fibrous dysplasia
 - b. Vestibular rehabilitation therapy
 - c. CSF Rhinorrhoea
 - d. Ludwigs Angina
 - e. Oesophagoscopy

POST GRADUATE EXAMINATION, APRIL- 2012
MS OTORHINOLARYNGOLOGY
(PAPER FOUR)
RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagnosis.

- Q. 1.** Discuss evaluation for candidacy, technique and rehabilitation for cochlear implant. (20)
- Q. 2.** Discuss conservative laryngectomy. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Transtympanic perfusion- indications, technique and limitations.
 - b. Endoscopic anatomy (surgical) of lateral wall of nose.
 - c. Newborn hearing screening methods.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Balloon sinoplasty
 - b. Surgery for tracheal stenosis
 - c. Intensity modulated Radiotherapy
 - d. Treatment for bilateral abductor cord palsy
 - e. Digital Hearing Aids

POST GRADUATE EXAMINATION, MAY- 2013

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER ONE)

BASIC SCIENCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe various phases of deglutition. (20)

Q. 2. Describe electrodiagnosis tests in facial palsy and their clinical application. Describe Schirmer's test. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Pathophysiology of Barotrauma
- b. Local anaesthesia in ENT
- c. Anatomy of recurrent laryngeal nerve

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Stapedius reflex
- b. Parapharyngeal space
- c. Anatomy of middle meatus
- d. Vocal ligament
- e. Prussak's space

POST GRADUATE EXAMINATION, MAY- 2013
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER TWO)
PRINCIPLES & PRACTICE OF OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss surgical anatomy of sinus tympani. Discuss its clinical importance. (20)
- Q. 2.** Discuss audiological assessment of a patient for Cochlear implantation. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. The minimally invasive technique in F.E.S.S.
 - b. Recent indications for Caldwell – Luc procedure.
 - c. Noise induced deafness.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Keratosis Obturans
 - b. Helicis Hirsuti
 - c. Complications of classical radical neck dissection
 - d. Orbital decompression
 - e. Percutaneous Tracheostomy

POST GRADUATE EXAMINATION, MAY- 2013
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER THREE)
PATHOLOGY & OPERATIVE OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Enumerate the causes of facial nerve paralysis and discuss surgical steps of facial nerve decompression. (20)
- Q. 2.** Describe carcinoma of maxillary sinus and surgical steps of total maxillectomy. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Thyroplasty
 - b. Solitary thyroid nodule
 - c. Modified radical neck dissection.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Endoscopic DCR operation
 - b. Tubercular cervical lymphadenopathy
 - c. Osteotomy in rhinoplasty
 - d. Surgical steps of stapedectomy.
 - e. Rigid bronchoscopy.

POST GRADUATE EXAMINATION, MAY- 2013

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER FOUR)

RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss obstructive sleep apnea syndrome. (20)
- Q. 2.** Discuss optic nerve relationship to ethmoid and sphenoid sinus. Describe procedure of endoscopic decompression of optic nerve. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Idiopathic sudden sensorineural hearing loss (ISSNHL).
 - b. Radionuclear thyroid ablation
 - c. Genetics and deafness
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Occupational deafness
 - b. Middle ear implants
 - c. CO₂ laser in ENT
 - d. Sialoendoscopy
 - e. Digital Hearing aids

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER ONE)

BASIC SCIENCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe the lumen and spaces in the larynx. Discuss their significance in the spread of malignancy. (20)
- Q. 2.** Discuss the anatomy of "Inner Ear" and physiology of hearing. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- Infantile larynx
 - Xylometazoline
 - Gustation
- Q. 4.** Write short notes on: (5 x 6 = 30)
- Function of paranasal sinuses.
 - Bill's Bar
 - Vidian Nerve
 - Oesophagous
 - Intra-tympanic gentamycin

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER TWO)

PRINCIPLES & PRACTICE OF OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss etiology, TNM staging and management of carcinoma glottis. Describe methods of voice rehabilitation after total laryngectomy. (20)
- Q. 2.** Describe Etiopathogenesis, clinical features and management of serous otitis media. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Describe sleepapnoea. How would you evaluate and manage a case of obstructive sleep apnoea?
 - b. Enumerate differences between adult and infant eustachian tube. Describe eustachian tube function tests.
 - c. Juvenile nasopharyngeal Angiofibroma.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Mutational falsetto.
 - b. Rhinosporidiosis
 - c. Ramsay hunt syndrome
 - d. MEN syndrome
 - e. Septal perforation

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER THREE)

PATHOLOGY & OPERATIVE OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Define idiopathic sensorineural hearing loss. Discuss aetiopathology, clinical presentation and management of ISSHL. (20)
- Q. 2.** Discuss aetiopathology, clinical presentation and work up of a patient of Juvenile Nasopharyngeal Angiofibroma. Describe Fisch classification and various surgical approaches for excision of JNA. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Evaluation of solitary thyroid nodule.
 - b. Endonasal frontal sinusotomy
 - c. Congenital cholesteatoma.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Management of tracheal stenosis.
 - b. Surgical steps of cochlear implantation.
 - c. Perilymphatic fistulas.
 - d. Management of post operative facial nerve paralysis.
 - e. Halitosis

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER FOUR)

RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss optic nerve relationship to the ethmoid and sphenoid sinus. Describe procedure of endoscopic decompression of optic nerve. (20)
- Q. 2.** Discuss the evaluation for candidacy, technique and rehabilitation for cochlear implantation. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Principles of PET and use of FDG-PET scan in head –neck cancer.
 - b. Genetics and deafness.
 - c. Microvascular flaps in malignancies of head and neck.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Videonystagmography (VNG).
 - b. CO₂ laser in otorhinolaryngology.
 - c. Types of osteotomies in rhinoplasty.
 - d. Thyroplasty
 - e. Digital hearing aids.

POST GRADUATE EXAMINATION, APRIL - 2015

**MS OTORHINOLARYNGOLOGY (ENT)
(PAPER ONE)**

PRINCIPLE BASIC SCIENCES & AUDIOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions.
Illustrate with suitable diagrams.

Q. 1. Describe intrinsic and extrinsic muscles of larynx. (20)

Q. 2. Pathophysiology of Deglutition. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Assessment of Deaf child.
- b. Chemotherapy in Head & Neck malignancy.
- c. Base of skull.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Dentinogenesis imperfecta
- b. Pharyngeal pouch
- c. Central auditory pathway
- d. PET
- e. Anomalies of Ear.

POST GRADUATE EXAMINATION, APRIL - 2015
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER TWO)
PRINCIPLES & PRACTICE OF OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss causes and management of infranuclear facial nerve paralysis. (20)

Q. 2. Describe symptoms, signs, various classifications and management of carcinoma of maxillary sinus. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Tubercular laryngitis.
- b. Radiotherapy and chemotherapy in carcinoma larynx.
- c. Thyroplasty

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Caloric test
- b. Wegner's granuloma
- c. Operative steps of tracheostomy.
- d. Harmonic scalpel
- e. Trotter's syndrome

POST GRADUATE EXAMINATION, APRIL - 2015

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER THREE)

PATHOLOGY & OPERATIVE OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Define conductive hearing loss. Discuss aetiopathology, investigative protocols and surgical interventions. (20)
- Q. 2.** Discuss aetiopathology, clinical presentation and workup of a patient of cerebro-spinal fluid rhinorrhea. Discuss various surgical modalities of management. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Middle meatus antrostomy.
 - b. Occult node in neck.
 - c. Petrositis.
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Management of tracheo-oesophageal fistula.
 - b. Surgery of oroantral fistula.
 - c. Posterior tympanotomy.
 - d. Inspiratory stridor
 - e. Cable grafts in facial nerve palsy.

POST GRADUATE EXAMINATION, APRIL - 2015
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER FOUR)
RECENT ADVANCES AND GENERAL SURGICAL PRINCIPLES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Write an essay on mastoid cavity problems. (20)

Q. 2. Describe recent advances in various methods to rehabilitate total laryngectomy patients. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Skull base osteomyelitis.
- b. Abe's Estlander flap.
- c. Classification of nasopharyngeal Angiofibroma.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Dermoid cyst of root of nose.
- b. Advantage/disadvantage of salivary gland endoscopy.
- c. Malapatti classification.
- d. B₁ CPAP.
- e. Anomalies of recurrent laryngeal nerve.

POST GRADUATE EXAMINATION, MAY - 2016

**MS OTORHINOLARYNGOLOGY (ENT)
(PAPER ONE)**

BASIC SCIENCES & AUDIOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe with suitable diagrams, the anatomy of human vestibular system. (20)

Q. 2. Discuss the mechanism of voice production in health and disease. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Role of fungi in otolaryngology
- b. Principles of laser surgery in ENT
- c. Speech audiometry

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Parapharyngeal space
- b. Implantable hearing devices
- c. Anosmia
- d. Spaces of larynx
- e. Haemorrhagic shock

X

POST GRADUATE EXAMINATION, MAY - 2016
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER TWO)
PRINCIPLES & PRACTICE OF OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** State the road map you will follow for study of paranasal sinus on CT scan. When will you go for MRI of paranasal sinuses? (20)
- Q. 2.** Describe etiopathogenesis, clinical features and management of Carcinoma Maxilla (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Classification of juvenile nasopharyngeal angiofibroma.
 - b. Bronchial cleft anomalies
 - c. Diagnostic nasal endoscopy
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Thyroglossal cyst
 - b. Management of occult primary with secondaries in neck.
 - c. Non neoplastic salivary gland diseases
 - d. Ototoxic drugs
 - e. Inverted Papilloma

X

POST GRADUATE EXAMINATION, MAY - 2016
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER THREE)
PATHOLOGY & OPERATIVE OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe the etiopathogenesis, clinical features, management of otosclerosis and contraindications for stapes surgery. (20)
- Q. 2.** Define cholesteatoma. Write in detail the pathogenesis, clinical features and management of cholesteatoma. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Work-up and surgical approaches for parapharyngeal space tumor.
 - b. IMRT and care of patient during during radiotherapy.
 - c. CSF rhinorrhoea
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Complications of sinusitis
 - b. Pleomorphic adenoma
 - c. Pharmacotherapy for vertigo
 - d. Management of Bilateral complete canal atresia
 - e. TESPAL

X

POST GRADUATE EXAMINATION, MAY - 2016
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER FOUR)
RECENT ADVANCES AND GENERAL SURGICAL PRINCIPLES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss the role of PET in ENT with regards to diagnosis and management. (20)
- Q. 2.** Discuss the principles and applications of cochlear implants in different types of deafness in different age groups. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Ultrasonography in ENT
 - b. Endoscopic tympanoplasty
 - c. Facial nerve identification landmarks in parotid surgery
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Laser in laryngology
 - b. Electrocochleography
 - c. Immunotherapy in head & neck cancers
 - d. Contact endoscopy
 - e. Endoscopic DCR

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS OTORHINOLARYNGOLOGY (ENT)
(PAPER ONE)**

BASIC SCIENCES & AUDIOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Describe in detail the evaluation of a deaf-mute child. Discuss the various methods of rehabilitation. (20)
- Q. 2.** Describe anatomy of the para-pharyngeal space and common space occupying lesions encountered in this space. Write about the clinical features and various surgical approaches for para-pharyngeal tumours. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Physiology of deglutition
 - b. Wound healing
 - c. Coagulation of blood, factors and pathways involved
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Hearing aids
 - b. Noise pollution
 - c. Middle ear spaces
 - d. Hearing tests in a malingerer
 - e. BERA

X

POST GRADUATE EXAMINATION, MAY - 2017
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER TWO)
PRINCIPLES & PRACTICE OF OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Describe definition, etiology and management of idiopathic sudden sensorineural hearing loss.
Enumerate congenital malformation of middle ear and inner ear. (20)
- Q. 2.** Discuss various types of selective neck dissection with suitable diagrams. Write a note on different types of incision used for neck dissection. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Branchial cleft anomalies.
 - b. Classification of rhinosinusitis. Discuss management of invasive fungal rhinosinusitis.
 - c. Trans-sphenoidal hypophysectomy
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Types of osteotomies in rhinoplasty
 - b. Temporal bone resection
 - c. Superficial parotidectomy
 - d. Percutaneous tracheostomy
 - e. Terminal care of patients with head-neck cancer

X

POST GRADUATE EXAMINATION, MAY - 2017
MS OTORHINOLARYNGOLOGY (ENT)
(PAPER THREE)
PATHOLOGY & OPERATIVE OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Discuss the advantages and disadvantages of different surgical options in the treatment of Meniere's disease. (20)
- Q. 2.** Describe the management issues in a post thyroidectomy patient. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Pathological spectrum of benign salivary gland tumors
 - b. IMRT and care of patient during radiotherapy
 - c. Complications of FESS
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Ringert's tumor
 - b. Posterior tympanotomy
 - c. Surgery for drooling
 - d. Sialoendoscopy
 - e. Malignant otitis externa

X

POST GRADUATE EXAMINATION, MAY - 2017

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER FOUR)

RECENT ADVANCES AND GENERAL SURGICAL PRINCIPLES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

Q. 1. Discuss the principles and applications of cochlear implants in different types of deafness in different age groups. (20)

Q. 2. Discuss the role of biomaterials in otology. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Trans oral robotic surgery in head and neck.
- b. PET scan its indications and limitations
- c. Role of image-guided surgery in paranasal sinus and skull base surgery

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Biofilms in ENT
- b. Role of botulinum toxin in ENT
- c. Videonystagmography (VNG)
- d. Tumor embolization
- e. Role of radiofrequency in ENT practice

X

POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

**MS OTORHINOLARYNGOLOGY (ENT)
(PAPER ONE)**

BASIC SCIENCES & AUDIOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe in detail the gross and histological anatomy of the vocal folds along with the physiology of phonation with suitable diagrams. Enumerate the differences between adult and paediatric larynx. (20)
- Q. 2.** Describe the anatomy of the middle ear and the physiological role of tympanic membrane and ossicles in the conduction of sound impulses. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. External carotid artery
 - b. Hearing aids
 - c. Boundaries, contents and communications of infratemporal fossa
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Role of positron emission tomography in ENT
 - b. OAE
 - c. Anatomical variations of paranasal sinuses
 - d. Ototoxicity
 - e. UPSIT

X

POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

MS OTORHINOLARYNGOLOGY (ENT)
(PAPER TWO)

PRINCIPLES & PRACTICE OF OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Briefly describe the intratemporal course of the facial nerve. Discuss the management of traumatic facial palsy and role of facial reanimation procedures in facial nerve paralysis. (20)
- Q. 2.** Discuss the principles and applications of cochlear implants in different types of deafness in different age groups. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Idiopathic sudden sensory neural hearing loss
 - b. Evaluation of a pre-lingually deaf child
 - c. CSF rhinorrhoea
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Various incisions for neck dissection
 - b. Types of osteotomies in rhinoplasty
 - c. Thyroplasty
 - d. Juvenile papilloma of the larynx
 - e. Percutaneous tracheostomy

POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER THREE)

PATHOLOGY & OPERATIVE OTORHINOLARYNGOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss the aetiopathogenesis of formation of cholesteatoma. How will you manage it? **(20)**

Q. 2. Discuss in detail endoscopic procedures in ENT. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Nasal polyposis
- b. Pharmacotherapy in vertigo
- c. Otitic hydrocephalous.

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Tracher's - Collin's syndrome
- b. Microdebrider in ENT
- c. Thyroglossal cyst
- d. Cochlear echoes
- e. Dentigerous cyst

X

POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

MS OTORHINOLARYNGOLOGY (ENT)

(PAPER FOUR)

RECENT ADVANCES AND GENERAL SURGICAL PRINCIPLES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss laser principles and applications in otorhinolaryngology. (20)

Q. 2. Describe various vocal cord paralysis situations. What is stroboscopy? (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Terminal care of patients with head-neck cancer
- b. Coblator in ENT
- c. Balloon sinuplasty

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Rhinomanometry
- b. Optic nerve decompression
- c. Robotics surgery in ENT
- d. BAHA
- e. Microvascular flaps in head and neck surgery

X