

FINAL EXAM  
JUNE 2012

NATIONAL BOARD OF EXAMINATIONS

OTORHINOLARYNGOLOGY

## PAPER- I

Time: 3 hours  
Max. Marks : 100

ENT/J/12/28/I

Attempt all questions in order.  
Each question carries 10 marks.

1. Enumerate various radiosurgery techniques. Outline their principles and uses. 4+6
2. Define angioneurotic oedema. Classify and give brief account of each. 2+5+3  
How would you manage it?
3. Define radio-sensitizers. Enumerate them with their mode of action. 3+7
4. What is MRSA? What are hospital safety measures for its prevention? 2+5+3  
What is its management in a patient?
5. What is robotic surgery? Describe its principles and uses in ENT. 4+4+2
6. Define AIDS. What are the modes of its transmission? Enumerate 1+2+7  
measures for post exposure management particularly in medical personnel.
7. What are the mechanisms of fracture of mandible? Give its clinical 3+(2+2+3)  
features, specific investigations and management.
8. Enumerate causes of stridor in a 2 year old child. How would you 4+6  
manage pharyngo-laryngeal diphtheria?
9. What is 'gene therapy'? Discuss its role in ENT. 2+8
10. What is acid-base balance & its basics? How will you manage a (2+2)+6  
suspected case of respiratory acidosis?

\*\*\*\*\*

*POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE  
EXAMINATION HALL*

FINAL EXAM  
JUNE 2012

NATIONAL BOARD OF EXAMINATIONS

**OTORHINOLARYNGOLOGY**  
**PAPER- II**Time : 3 hours  
Max. Marks : 100

ENT/J/12/28/II

**Attempt all questions in order.**  
**Each question carries 10 marks.**

1. What is the protocol for assessment of suspected hearing impaired infant? Outline options with advantages and drawbacks for the management of a hearing impaired school going child. 6+2+2
2. Enumerate causes of odynophagia. Outline management of a patient with stage II oropharyngeal malignancy. 6+4
3. Enumerate causes of proptosis related to ENT. Outline investigations and management of such a case due to nasopharyngeal angiofibroma. 5+5
4. Define noise induced hearing loss. Briefly outline its pathogenesis and current guidelines for preventing noise pollution and related hearing impairment. 2+4+4
5. Define vasomotor rhinitis. What are its diagnostic steps and management? 3+4+3
6. What is laryngo-pharyngeal reflux? Outline its investigative protocol and management. 2+4+4
7. Briefly describe significance of Reinke's space, preepiglottic and paraglottic space in spread of laryngeal cancer. 3+3+4
8. Describe briefly pathogenesis, clinical features and management of lethal midline granuloma. 4+2+4
9. Classify temporal bone fractures, their clinical manifestations and management. 2+5+3
10. Classify thyroiditis. Outline descriptively pathogenesis of Hashimoto's disease and management. 2+4+4

\*\*\*\*\*

*POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL*

FINAL EXAM  
JUNE 2012

NATIONAL BOARD OF EXAMINATIONS

**OTORHINOLARYNGOLOGY**  
**PAPER- III****Time : 3 hours**  
**Max. Marks : 100****ENT/J/12/28/III****Attempt all questions in order.**  
**Each question carries 10 marks.**

1. Discuss briefly principles and complications of supraomohyoid neck dissection. 6+4
2. Discuss briefly anterior cricoid split, cricotracheal resection and laryngotracheal reconstruction in subglottic stenosis. 2+4+4
3. Describe branchial arch fistulae and sinuses. Discuss their management. 4+6
4. Describe briefly etiopathogenesis and role of surgical options for atrophic rhinitis. Add a role on Slavic facies. 4+4+2
5. Describe the pathogenesis of acquired cholesteatoma and its mechanism in bone resorption. 3+4+3
6. What are middle ear implants? Briefly describe their mechanism, indications and limitations. 3+(3+2+2)
7. Describe briefly velopharyngeal insufficiency and its surgical management. 4+6
8. Describe pathophysiology of obstructive sleep apnoea and Epworth Sleepiness Scale. 6+4
9. Outline pre-surgical evaluation for rhinoplasty. Briefly describe various techniques and their complications. 3+(4+3)
10. Describe briefly aetiology, diagnosis and management options for relapsing polychondritis. 2+4+4

\*\*\*\*\*

*POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL*

FINAL EXAM  
JUNE 2012

NATIONAL BOARD OF EXAMINATIONS

OTORHINOLARYNGOLOGY  
PAPER- IVTime : 3 hours  
Max. Marks : 100

ENT/J/12/28/IV

**Attempt all questions in order.**  
**Each question carries 10 marks.**

1. What are the elements of nasal secretions? Describe the composition of mucus. 3+7
2. Describe anatomy of jugular foramen. What are the diseases which affect it? 5+5
3. Enumerate vestibular function tests performed in evaluating vertigo. Describe the 'Head Thrust Test' and its importance. 4+3+3
4. Describe the anatomy of infratemporal fossa and its surgical approaches. 5+5
5. Describe the anatomy of lateral wall of nose. What are the principles of Functional Endoscopic Sinus Surgery? 6+4
6. Describe the physiology of deglutition. 10
7. What is Riolan's bouquet? Enumerate the tumors originating in the parapharyngeal space and describe the approaches to this space. 2+3+5
8. Describe Hypothalamic-Pituitary-Thyroid complex for regulation of Thyroid function. 10
9. Enumerate the branches of each division of Trigeminal nerve and the structures they innervate. Describe briefly corneal reflex. (4+3)+3
10. What are the theories of olfaction? What are primary odours, presbyosmia and cacosmia? What is electronic nose? 4+(2+1+1)+2

\*\*\*\*\*

POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE  
EXAMINATION HALL