

**OTORHINOLARYNGOLOGY (ENT)**

**PAPER- I**

**ENT/D/11/28/I**

**Time : 3 hours**  
**Max. Marks : 100**

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

**Write short notes on:-**

1. Describe etiopathogenesis of deep vein thrombosis. How do you diagnose and manage it? 3+3+4
2. What is hypercalcaemic crisis? Describe its pathophysiology, tumor association and management. 2+3+2+3
3. Describe the principles of Positron Emission Tomography (PET). What are its application in evaluation and management of Head and Neck malignancies? 5+5
4. Classify surgical wounds. What are the causes, risk factors and pathogens in wound sepsis? Enumerate measures for prevention and treatment of wound sepsis. 2+4+4
5. What are Radio-nuclides? Describe their role in imaging and therapeutic application in ENT. 2+4+4
6. How will you evaluate and manage a 50 year old male patient with solitary thyroid nodule? 3+7
7. What are tumor markers? Discuss their role in squamous cell carcinoma of Head and Neck. 4+6
8. What is Brachytherapy? Discuss the clinical application of Brachytherapy in Head and Neck malignancies. 4+6
9. Discuss the principles of Image Guided Surgery. What are the applications of Image Guided Surgery in ENT practice? What are the advantages of Image Guided Surgery? 4+3+3
10. What are the principles of Skull Base Surgery? Enumerate the major complications of Skull Base Surgery and discuss the recent developments in reducing these complications. 4+3+3

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**OTORHINOLARYNGOLOGY (ENT)**

**PAPER III**

**Time : 3 hours**

**ENT/D/11/28/III**

**Max Marks : 100**

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

**Write short notes on:-**

1. What are ten cardinal features of Down Syndrome in newborn?  
What is the treatment principle of craniofacial dysostosis? 6+4
2. Enumerate the causes of delayed post traumatic CSF rhinorrhea.  
How will you evaluate and manage such a case? 4+3+3
3. Describe surgical anatomy of Cerebellopontine angle. Enumerate  
its lesions and surgical approach to it. 4+2+4
4. What are the anatomical variations influencing the development of  
rhino-sinusitis? Briefly discuss the evaluation and management of  
non-invasive fungal sinusitis. 4+3+3
5. What are the difficult situations one can encounter during cochlear  
implant surgery? Enumerate the complications of cochlear  
implantation. 5+5
6. What are the different types of Lasers used in Otolaryngological  
practice? What are the clinical applications and advantages of  
Lasers in ENT practice? 5+3+2
7. Classify fascio-maxillary fractures. How will you assess and  
manage them? 4+6
8. What is otitic barotrauma? Briefly discuss the etiopathogenesis,  
evaluation and management of otitic barotrauma. 3+2+2+3
9. Enumerate distal axial flaps used in Head and Neck surgery.  
Discuss techniques of pectoralis major myocutaneous flap. 4+6
10. Discuss technique, post-operative care and complications of  
endoscopic trans-sphenoidal hypophysectomy. 4+3+3

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**OTORHINOLARYNGOLOGY (ENT)**

**PAPER III**

**Time : 3 hours**

**ENT/D/11/28/III**

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**OTORHINOLARYNGOLOGY (ENT)**

**PAPER- IV**

**ENT/D/11/28/IV**

**Time : 3 hours**

**Max. Marks : 100**

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

**Write short notes on:-**

1. Enumerate the four distinct phases of wound healing and their mechanism. What is the role of collagen and cytokines in wound healing? 2+4+4
2. Describe briefly Olfactory pathway. Classify odours. What are Olfactory dysfunctions? 5+2+3
3. Enumerate temporal bone projections in conventional imaging and structures to be assessed in each of these projections. 5+5
4. Discuss the surgical anatomy of parapharyngeal space. How will you evaluate a case of parapharyngeal tumour and briefly describe the surgical approaches to parapharyngeal space. 4+3+3
5. Give brief account of viruses causing respiratory illness. 10
6. Describe muscles of mastication and their actions. 5+5
7. Discuss the embryogenesis and management of choanal atresia? 5+5
8. Describe pathway, evaluation and clinical significance of vestibulo-ocular reflex. 4+3+3
9. Discuss the principle of Impedance Audiometry. Briefly describe the stapedial reflex pathway. What are the applications of Impedance Audiometry in otological practice? 3+3+4
10. Describe the intrinsic pathway of coagulation. How will you evaluate a patient of coagulation disorder prior to surgery? 5+5

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