Write short notes on:

1. a) Embryology of external and middle ear.  
   b) Congenital anomalies of external and middle ear.  

2. a) Define stapedial reflex and describe its pathway.  
   b) How does it help the ENT surgeon in audiological assessment of deafness?  

3. a) Anatomy of Eustachian tube.  
   b) How would you evaluate its function?  

4. a) What are hearing aids?  
   b) Classify different types of hearing aids.  
   c) What are the factors which influence prescribing the hearing aids?  

5. a) Enumerate the causes of pain in ear (otalgia).  
   b) How would you manage a case of otitis externa?  

6. a) Define otoacoustic emission.  
   b) Origin, method of testing and clinical importance of otoacoustic emission.  

7. a) What are the risk factors for hearing problems in a newborn?  
   b) How would you screen these newborn babies for hearing?  

8. a) Intra-temporal anatomy of facial nerve.  
   b) What are the topodiagnostic tests used for facial nerve palsy?  

9. a) Pathophysiology of nystagmus.  
   b) What are the tests for evaluation of BPPV and how would you manage it?  

10. a) What is otitic barotrauma?  
     b) How can this be prevented?  
     c) How will you manage otitic barotrauma?