

**OTORHINOLARYNGOLOGY**  
**PAPER-I**

TIME: 3 HOURS  
MAX. MARKS: 100

ENT/J/20/28/I

**Important Instructions:**

- *Attempt all questions in order.*
- *Each question carries 10 marks.*
- *Read the question carefully and answer to the point neatly and legibly.*
- *Do not leave any blank pages between two answers.*
- *Indicate the question number correctly for the answer in the margin space.*
- *Answer all the parts of a single question together.*
- *Start the answer to a question on a fresh page or leave adequate space between two answers.*
- *Draw table/diagrams/flowcharts wherever appropriate.*

**Write short notes on:**

1. a) Describe Bias in medical research. 5+5  
b) What steps can you take while formulating a study to remove/reduce various Bias?
2. a) Describe the applied anatomy and physiology of acoustic reflex. 5+5  
b) Discuss two clinical scenarios where acoustic reflex makes significant contribution to decision making.
3. a) Describe the microstructure of Cochlea. 5+5  
b) Discuss the homeostasis of intracochlear fluids.
4. a) Enumerate the causes of congenital deafness. 4+6  
b) How would you evaluate a deaf child?
5. a) Enumerate the causes of conductive hearing loss with intact tympanic membrane. 4+6  
b) Describe clinical features and management of congenital cholesteatoma.
6. a) Describe the calculation of percentage of hearing loss for the purpose of disability certification. 5+5  
b) Discuss the role of tuning forks in diagnosing malingering.
7. a) Describe the grading systems for facial nerve palsy. 5+5  
b) Discuss the management of a case of facial palsy in a patient of chronic otitis media (squamosal).
8. a) Discuss the surgical anatomy in relation to the Posterior Tympanotomy approach and the uses of this approach. 5+5  
b) Describe the candidacy criteria for cochlear implant surgery.
9. a) Discuss the comparative position of endoscopic ear surgery and microscopic ear surgery. 5+5  
b) Discuss the role of endoscopes in lateral skull base surgery.
10. a) Discuss the physiological basis and uses of VEMP. 5+5  
b) Discuss the differentiating points in history and clinical examination between central and peripheral vertigo.

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