

**Q.P. Code: 201389**

**Reg. No.:.....**

**Second Semester M.Sc. Audiology Degree Regular/Supplementary  
Examinations March 2024**

**A 201: Neurophysiology of Hearing**

**Time: 3 hrs**

**Max marks: 80**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essays**

**(5x16=80)**

1. With neat diagram explain the anatomy and neural innervation of SOC in detail
2. (a) Explain non linearity of auditory nerve with appropriate diagram  
(b) Write a note on the neurotransmitters of the auditory system (8+8)
3. With a neat diagram explain the stimulus coding at the level of IC with special reference to modulation encoding.
4. (a) Explain the neurobiological relation between auditory and other areas of cortex.  
(b) Write a note on cortical encoding of speech stimulus. (8+8)
5. (a) Explain the innervation of MSOC and LSOC in cochlea  
(b) explain the effect of efferent stimulation on auditory nerve and cochlear nucleus. (8+8)

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