

[KZ 1011]

Sub. Code: 3007

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
(MASLP) DEGREE EXAMINATION  
FIRST YEAR**

**PAPER VII – AUDITORY PHYSIOLOGY  
Q.P. Code : 433007**

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. With a neat diagram write an essay on anatomy and physiology of vestibular system.	17	40	20
2. Write about transformer action of Middle ear and its role in human hearing.	17	40	20

**II. Write notes on :**

1. Temporal bone and its importance.	4	10	6
2. Anatomy of External Ear.	4	10	6
3. Non acoustic reflex pathway and importance.	4	10	6
4. Draw human middle ear and label the parts.	4	10	6
5. Cochlear fluids and their properties.	4	10	6
6. Cochlear non-linearity.	4	10	6
7. Frequency theory.	4	10	6
8. Stimulus Coding in Auditory nerve.	4	10	6
9. Anatomy of IC and MGB.	4	10	6
10. Neurobiological relationship between auditory cortex and other areas.	4	10	6

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[LB 1012]

OCTOBER 2012

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MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

(MASLP) DEGREE EXAMINATION

FIRST YEAR

PAPER VII – AUDITORY PHYSIOLOGY

*Q.P. Code : 433007*

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks  
(Max.)(Max.)(Max.)

- |  |    |    |    |
|--|----|----|----|
| 1. How improved knowledge of the anatomy of the cochlea influenced the development of theories of hearing? | 17 | 40 | 20 |
| 2. Explain the anatomy and function of the descending auditory pathway.                                    | 17 | 40 | 20 |

II. Write Notes on :

- |   |   |    |   |
|---|---|----|---|
| 1. Muscles of middle ear.                                 | 4 | 10 | 6 |
| 2. Supporting cells in the cochlea.                       | 4 | 10 | 6 |
| 3. Non-auditory reflex pathway.                           | 4 | 10 | 6 |
| 4. Characteristic features of physiologic tuning curve.   | 4 | 10 | 6 |
| 5. Oto acoustic emissions.                                | 4 | 10 | 6 |
| 6. Cochlea is a non-linear transducer. Discuss.           | 4 | 10 | 6 |
| 7. Write a short note on two tone suppression.            | 4 | 10 | 6 |
| 8. Differences in composition of endolymph and perilymph. | 4 | 10 | 6 |
| 9. Basilar membrane.                                      | 4 | 10 | 6 |
| 10. Cochlear microphonics.                                | 4 | 10 | 6 |

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[LC 0413]

APRIL 2013

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MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

(MASLP) DEGREE EXAMINATION

FIRST YEAR

PAPER VII – AUDITORY PHYSIOLOGY

*Q.P. Code : 433007*

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2x20=40)**

1. Describe the innervations of the cochlea.
2. Using a diagram, describe the important anatomical features of the tympanic membrane. Discuss its role in hearing.

**II. Write notes on :**

**(10X6=60)**

1. Resting potentials in the cochlea.
2. Tonotopic organization in the auditory cortex.
3. Fluids in the cochlea.
4. Place volley theory.
5. Phylogeny of the middle ear.
6. Anatomical features of the medial wall of the middle ear.
7. Physiology of balance.
8. Travelling wave theory is a simplistic of explaining cochlear physiology. Discuss.
9. What is the role of the acoustic reflex in hearing?
10. Compare the outer hair cells with the inner hair cells.

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