

[KZ 1011]

Sub. Code: 3006

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

**PAPER VI – PSYCHOPHYSICS
Q.P. Code : 433006**

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

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Explain the critical band concept with respect marking.	17	40	20
2. Explain pitch scales affecting pitch.	17	40	20

II. Write notes on :

1. Methods of limits and adjustment.	4	10	6
2. Loudness adaptation.	4	10	6
3. Psychophysical tuning curves.	4	10	6
4. Frequency resolution and excitation patterns.	4	10	6
5. Duration discrimination.	4	10	6
6. Levels of adaptation and its physiology.	4	10	6
7. Role of acoustic reflex in loudness perception.	4	10	6
8. Absolute and relative DILF's.	4	10	6
9. Lateralization Vs Localization.	4	10	6
10. Explain Binaural fusion and beats phenomenon.	4	10	6

[LA 0412]

Sub. Code: 3006

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
(MASLP) DEGREE EXAMINATION –April 2012**

FIRST YEAR

PAPER VI – PSYCHOPHYSICS

Q.P. Code : 433006

**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. Define and classify masking from psycho acoustic perspective.
Discuss the concepts of auditory filters, frequency resolution
and masking excitation patterns. | 17 | 40 | 20 |
| 2. Define localization. Discuss factors affecting localization
and its clinical applications. | 17 | 40 | 20 |

II. Write notes on :

- | | | | |
|-------------------------------------------------|---|----|---|
| 1. ROC curves. | 4 | 10 | 6 |
| 2. Factors affecting loudness. | 4 | 10 | 6 |
| 3. Frequency resolution and excitation pattern. | 4 | 10 | 6 |
| 4. Temporal modulation transfer function. | 4 | 10 | 6 |
| 5. Factors affecting temporal perception. | 4 | 10 | 6 |
| 6. Pathophysiology of fatigue. | 4 | 10 | 6 |
| 7. Pitch of complex tones. | 4 | 10 | 6 |
| 8. Lateralization Vs localization. | 4 | 10 | 6 |
| 9. Binaural summation. | 4 | 10 | 6 |
| 10. Factors affecting behavioral hearing. | 4 | 10 | 6 |

[LB 1012]

OCTOBER 2012

Sub. Code: 3006

MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

(MASLP) DEGREE EXAMINATION

FIRST YEAR

PAPER VI – PSYCHOPHYSICS

Q.P. Code : 433006

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. Explain the theory of signal detection. Discuss its applications in detail? | 17 | 40 | 20 |
| 2. Define adaptation. Explain various methods and stimuli for studying adaptation. Discuss the stimulus parameters affecting adaptation. | 17 | 40 | 20 |

II. Write notes on :

- | | | | |
|-----------------------------------------|---|----|---|
| 1. Pathophysiology of fatigue. | 4 | 10 | 6 |
| 2. Weber's law. | 4 | 10 | 6 |
| 3. Factors affecting loudness. | 4 | 10 | 6 |
| 4. Gap detection temporal integration. | 4 | 10 | 6 |
| 5. Critical band concept. | 4 | 10 | 6 |
| 6. Physiology Tuning curves. | 4 | 10 | 6 |
| 7. Absolute and relative DLP's. | 4 | 10 | 6 |
| 8. Factors affecting Timbre perception. | 4 | 10 | 6 |
| 9. Masking level difference. | 4 | 10 | 6 |
| 10. Durlach and Jeffress models. | 4 | 10 | 6 |

[LC 0413]

APRIL 2013

Sub. Code: 3006

MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

(MASLP) DEGREE EXAMINATION

FIRST YEAR

PAPER VI – PSYCHOPHYSICS

Q.P. Code : 433006

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

Maximum : 100 marks

I. Elaborate on:

(2x20=40)

1. Define and classify masking from psychoacoustic perspective. Discuss the concepts of auditory filters, frequency resolution and masking excitation patterns.
2. Define localization. Discuss factors affecting localization and its clinical applications.

II. Write notes on :

(10X6=60)

1. ROC Curves.
2. Factors affecting loudness.
3. Frequency resolution and excitation patterns.
4. Temporal modulation transfer function.
5. Factors affecting temporal perception.
6. Pathophysiology of fatigue.
7. Pitch of complex tones.
8. Lateralization Vs localization.
9. Binaural summation.
10. Factors affecting binaural hearing.
