

[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 :**

|                                                            | <b>Pages<br/>(Max.)</b> | <b>Time<br/>(Max.)</b> | <b>Marks<br/>(Max.)</b> |
|------------------------------------------------------------|-------------------------|------------------------|-------------------------|
| 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 |

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[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 :**

| <b>Pages<br/>(Max.)</b> | <b>Time<br/>(Max.)</b> | <b>Marks<br/>(Max.)</b> |
|-------------------------|------------------------|-------------------------|
|-------------------------|------------------------|-------------------------|

- |                                                                                                                                                                        |    |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| 1. Define and classify masking from psycho acoustic perspective.<br>Discuss the concepts of auditory filters, frequency resolution<br>and masking excitation patterns. | 17 | 40 | 20 |
| 2. Define localization. Discuss factors affecting localization<br>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 |

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[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 |

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**[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.

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**[LD 1013]**

**OCTOBER 2013**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGEPATHOLOGY**

**(MASLP) DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER VI - PSYCHOPHYSICS**

**Q.P. Code: 433006**

**Time: Three hours**

**Maximum: 100 Marks**

**Answer All questions**

**I Elaborate on:**

**(2x20 =40)**

1. Explain pitch perception - Theories of pitch perception in detail and compare and contrast its merits and demerits with physiological research evidence.
2. How loudness perception differs between normal hearing and cochlear impaired population. Explain it physiological and perceptual studies.

**II. Write Short notes on:**

**(10 x 6 = 60)**

1. Two tone perception.
2. Temporal modulation transfer function.
3. MAF and MAP
4. Parameters affecting adaptation tests.
5. How does duration discrimination differ in various stimuli.
6. Time intensity trade and cochlear integration.
7. Lateralisation and auditory image.
8. Factors affecting localization in horizontal plane.
9. Most comfortable loudness and its clinical implications.
10. Simultaneous masking in clinical audiology.

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[LF 1014]

OCTOBER 2014

Sub. Code: 3006

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
(MASLP) DEGREE EXAMINATION  
FIRST YEAR  
(2010-2011 Session onwards)  
PAPER VI - PSYCHOPHYSICS**

*Q.P. Code: 433006*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Differentiate between localization and lateralization. Explain factors contributing to both. How do you clinically apply them?
2. Define signal detection. Explain various psychophysical methods with its merits and de-merits.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Binaural DLF, DLI and DLT.
2. Parameters affecting adaptation with its clinical applications.
3. Consonance vs. dissonance.
4. Explain softness perception with theory.
5. Perception of complex tone in humans.
6. Duration discrimination.
7. Equal loudness contours.
8. Cone of confusion and its importance in audiology.
9. Equivalent rectangular band concept.
10. Masking and pulsation threshold.

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[LG 0415]

APRIL 2015

Sub. Code: 3006

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
(MASLP) DEGREE EXAMINATION  
FIRST YEAR  
(2010-2011 Session onwards)  
PAPER VI - PSYCHOPHYSICS**

***Q.P. Code: 433006***

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Theories of pitch perception in detail with its merits and de-merits and research evidences.
2. How do you differentially assess adaptation and fatigue? Explain with pathophysiology and clinical applications.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Gap detection in broadband noise
2. Binaural beats
3. Critical band concept
4. Loudness perception in cochlear pathology
5. Space perception and its clinical applications
6. Ohm's law with its applications in perception
7. Jeffress model
8. Auditory image and lateralization
9. Differentiate between localization in air and underwater medium
10. Levels of adaptation

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[LH 0415]

OCTOBER 2015

Sub. Code: 3006

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY**

**(from 2010-2011 Session onwards)**

**FIRST YEAR**

**PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Factors that affect loudness perception
  - a. Stimuli related
  - b. Pathology related
2. Define Masking. Explain the types of masking with its physiology from psychophysical point of view.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Psychophysical Tuning Curve.
2. Relevance of recruitment in clinical and rehabilitative audiology.
3. Weber's Law.
4. Frequency resolution. Explain one method to assess it.
5. Levels of adaptation with physiology.
6. Gap detection in Broad Band Noise.
7. Evolution to Place Volley theory of pitch perception.
8. Factors affecting timber perception.
9. Minimum Audible Angle and Cone of Confusion.
10. Binaural advantage.

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[LI 0416]

**APRIL 2016**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Adaptation Vs fatigue. Define and differentially assess them. Explain various physiological phenomena behind them.
2. Explain theories of pitch perception in detail. Compare and contrast its merits and demerits with physiological research evidence.

**II. Write notes on:**

**(10 x 6 = 60)**

1. How does duration discrimination differ in various stimuli?
2. Factors affecting localization in horizontal plane.
3. Simultaneous masking in clinical audiology.
4. Adaptive methods in Psycho physics.
5. Pitch perception in complex tones.
6. What is difference limen? How it is assessed?
7. Explain minimal audible angle and cone of confusion with research evidence.
8. Space perception and its clinical implications.
9. Psychophysical tuning curves and its applications.
10. Consonance and dissonance in music perception.

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[LJ 1016]

**OCTOBER 2016**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. How do you apply the concepts of signal detection theory in Audiology?
2. Give an evidence for each template and temporal theory of pitch perception also describe in detail about the mechanisms of pitch perception of pure tone and complex tone.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Describe the transformed up-down procedure of threshold tracking. List its merits and demerits.
2. What are the effects of frequency and presentation level on difference limen for frequency?
3. Explain the symmetrical and asymmetrical notched-noise method of auditory filter shape and bandwidth estimation.
4. What are the mechanisms behind co-modulation masking release?
5. With an appropriate example, explain the effects of carrier type and frequency on amplitude modulation detection thresholds.
6. Describe the physiological mechanism of loudness adaptation.
7. What is simultaneous and sequential stream segregation? Describe how binaural cues help in auditory stream segregation.
8. What are beats, consonance, and dissonance?
9. Describe the cues that help in elevation perception.
10. Discuss in detail about the cues that help in horizontal localization.

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[LK 0517]

**MAY 2017**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:** **(2 x 20 = 40)**

1. Differentially assess fatigue and adaptation. Explain with pathophysiology.
2. Define signal detection. Explain various psychophysical methods with its merits and demerits.

**II. Write notes on:** **(10 x 6 = 60)**

1. Equal loudness contours.
2. Explain softness perception with theory.
3. Critical band concept.
4. Gap detection in broadband noise.
5. Ohm's Law.
6. MLD.
7. Durlach model.
8. Binaural beats.
9. Consonance Vs dissonance.
10. Loudness perception in Cochlear pathology.

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[LL 1017]

**OCTOBER 2017**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain theory of signal and its clinical applications.
2. Explain physiological aspects of adaptation. Describe various patho-physiological causes that affect adaptation.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Differential sensitivity for intensity.
2. Types of masking.
3. Equivalent rectangular bandwidth.
4. Duration discrimination.
5. Object perception.
6. Masking level difference.
7. Space perception.
8. Cone of confusion.
9. Ohms law.
10. Weber's law.

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[LM 0518]

**MAY 2018**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain temporal perception in detail. Describe temporal encoding in auditory system and its clinical applications.
2. Describe psychophysical tuning curves and its procedure. Explain its clinical applications with suitable examples.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Consonance and dissonance.
2. MAF and MAP.
3. Critical band concept.
4. Gap detection and its applications.
5. Temporal modulation transfer function.
6. Timber perception.
7. Interaural time difference.
8. Compare monoaural vs binaural hearing.
9. Minimum audible angle and cone of confusion.
10. Weber's law.

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[LN 1018]

**OCTOBER 2018**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain theory of signal detection in detail.
2. Explain loudness perception models and factor effecting it.

**II. Write notes on:**

**(10 x 6 = 60)**

1. MAP and MAF curve.
2. Cues of localization.
3. Any one tests of temporal resolution.
4. Psychophysical laws.
5. Pure tone and complex tone perception.
6. Methods to evaluate shape of auditory filter.
7. Masking level difference and its theory.
8. Explain factors affecting pitch perception.
9. Models of binaural hearing.
10. Forced choice method and its advantage.

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[LO 0519]

**MAY 2019**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain temporal dimension in binaural hearing. Write a note on binaural phenomenon of beats and rotating tones.
2. Explain psychophysical tuning curves. Write a note on critical band concept.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Explain in detail about loudness scaling.
2. Explain pitch of complex tones.
3. Write a note on lateralization.
4. What is the utility of binaural interference in localization?
5. Write about different types of maskers and their role in masking.
6. Explain binaural adaptation and binaural interference.
7. Explain critical band and auditory filters.
8. Explain pitch perception in pathological ears.
9. Compare and contrast adaptation and fatigue.
10. Explain the role of figure-ground phenomenon in perception.

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[LP 1019]

**OCTOBER 2019**

Sub. Code: 3006

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What is MLD? Explain the method to measure MLD.
2. What is Auditory scene analysis? How does the brain analyze the auditory environment? Explain in detail.

**II. Write notes on:**

**(10 x 6 = 60)**

1. What are the methods used to study adaptation?
2. Factors affecting music perception.
3. Write a note on lateralization.
4. Time intensity trade.
5. Write about different types of maskers and their role in masking.
6. Explain binaural adaptation and binaural interference.
7. Explain gap detection testing.
8. Psychophysical tuning curves.
9. Methods of limits and adjustment.
10. Pitch of complex tones.

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[LQ 1019]

**NOVEMBER 2020  
(MAY 2020 EXAM SESSION)**

Sub. Code: 3006

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER VI – PSYCHOPHYSICS**

*Q.P. Code : 433006*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Timbre Perception and Factors affecting Timbre Perception.
2. Lateralization and Binaural Integration.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Concept and application of ROC.
2. Florentine theory of Softness Imperceptions.
3. Masking and PTC.
4. Equivalent Rectangular Band Concept.
5. Parameters affecting Temporal Perception.
6. Temporal Acuity and Temporal order.
7. Pitch of Complex Tones.
8. Object Perception and Object Identification.
9. Binaural DLF and DLI.
10. Role of Pinna and Cone of Confusion.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 3006**

**(OCTOBER 2020 EXAM SESSION)**

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR (From 2010-2011 onwards)**

**PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on :**

**(2x20=40)**

1. Classical and adaptive methods in psychophysics.
2. Factors affecting temporal perception and Clinical application.

**II. Write notes on :**

**(10x6=60)**

1. Durlach and Jeffress models.
2. Monaural localization and clinical application of binaural hearing.
3. Factors affecting pitch perception.
4. Ohm's law and auditory scene analysis.
5. Adaptation and fatigue.
6. Temporal modulation transfer function.
7. Critical band concept.
8. Frequency resolution and excitation pattern.
9. MAP & MAF.
10. Factors affecting loudness.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0921]**

**SEPTEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR (From 2010-2011 onwards)  
PAPER VI – PSYCHOPHYSICS  
*Q.P. Code : 433006***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on :**

**(2x20=40)**

1. Explain temporal perception in detail. Describe various factors affecting temporal processing.
2. Explain binaural hearing in detail and its advantages in the management of hearing impaired.

**II. Write notes on :**

**(10x6=60)**

1. Localization.
2. Timbre perception.
3. Pathophysiology of fatigue.
4. Temporal modulation transfer function.
5. Weber's law and differential sensitivity.
6. Psychophysical methods for the assessment of threshold.
7. Critical band concept.
8. Cone of confusion.
9. Consonance and dissonance.
10. Clinical application of psychophysical tuning curves.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0222]**

**FEBRUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR (From 2010-2011 onwards)  
PAPER VI – PSYCHOPHYSICS  
*Q.P. Code : 433006***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on :**

**(2x20=40)**

1. Explain theory of signal detection and its clinical applications in detail.
2. Explain various aspects of binaural hearing and its clinical application with examples.

**II. Write notes on :**

**(10x6=60)**

1. Florentine theory of softness imperceptions.
2. Theories and models of loudness perception.
3. Frequency resolution.
4. Critical band concept.
5. Gap detection.
6. Levels of adaptation and its physiology.
7. Ohm's law.
8. Auditory scene analysis.
9. Durlach and Jeffress models.
10. Role of pinna in localization.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0522]**

**MAY 2022**

**Sub. Code: 3006**

**MASTER OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR (From 2010-2011 onwards)**

**PAPER VI – PSYCHOPHYSICS**

***Q.P. Code : 433006***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on :**

**(2x20=40)**

1. Explain pitch perception and factors affecting them in normal hearing and hearing-impaired individuals.
2. Explain the theories, models, and physiological aspects of adaptation in detail.

**II. Write notes on :**

**(10x6=60)**

1. Differential sensitivity of frequency.
2. Perception of pitch of complex tones.
3. Object perception.
4. Masking level difference.
5. Minimum audible angle.
6. Duration discrimination.
7. Types of temporal masking.
8. Clinical application of temporal resolution.
9. Factors affecting loudness perception.
10. Clinical application of differential sensitivity and Weber's law.

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