

BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

FIRST YEAR – SEMESTER - II

PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Maximum : 75 Marks

Answer All questions

I. Elaborate on:

(2 x 10 = 20)

1. Essential factors to be included in case history for children and its relevance in audiological evaluation.
2. With a neat block diagram explain parts of an audiometer.

II. Write notes on:

(8 x 5 = 40)

1. Explain equal loudness contours.
2. Weber Test.
3. Biological calibration.
4. DL for frequency and Intensity.
5. Purpose of audiometry.
6. Different audiogram patterns.
7. Masking dilemma.
8. Types of Transducers.

III. Short answers on:

(5 x 3 = 15)

1. What is Pitch?
2. What are the materials used for testing SRT?
3. Bing Test.
4. Define – Objective calibration.
5. Ossicles.

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PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Maximum : 75 Marks

Answer All questions

I. Elaborate on:

(2 x 10 = 20)

1. What are tuning fork tests? Elaborate on principles, procedure, interpretation, advantages and disadvantages of any two tuning fork tests.
2. Clinical methods of threshold estimation.

II. Write notes on:

(8 x 5 = 40)

1. Rinne Test and its interpretation – Merits and Demerits.
2. Occlusion effect.
3. Types of audiometers.
4. Procedure for threshold estimation.
5. Phones and Sones.
6. What is linearity check? Explain the objective calibration of bone vibrator.
7. Scales of pitch.
8. Write short notes on Minimum, Effective Masking level for BC masking.

III. Short answers on:

(5 x 3 = 15)

1. Shadow curve.
2. Weber's fraction.
3. Permissible ambient noise in audiometric rooms.
4. Screening audiometer.
5. Standing waves.

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FIRST YEAR – SEMESTER - II

PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Maximum : 75 Marks

Answer All questions

I. Elaborate on:

(2 x 10 = 20)

1. AC and BC masking. Explain with purpose, rationale, stimuli and procedure.
2. Principles, procedure and interpretation of Weber and Schwabach tuning fork test.

II. Write notes on:

(8 x 5 = 40)

1. Purpose and rationale of clinical masking.
2. Audiometric version of Bing test and its interpretation.
3. Factors affecting air conduction thresholds.
4. Loudness scales.
5. Procedure and application of speech audiometry.
6. Daily listening check and subjective calibration.
7. Various configurations of audiograms.
8. Define pitch and write about scales of pitch.

III. Short answers on:

(5 x 3 = 15)

1. Puretone average.
2. PIPB function.
3. Natal causes for hearing loss.
4. Importance of speech audiometry.
5. Mel.

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PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Maximum : 75 Marks

Answer All questions

I. Elaborate on: **(2 x 10 = 20)**

1. Principles, procedure and interpretation of Rinne test and Bing test and its merits and demerits.
2. Define SRT and SDT. Explain the procedure and clinical application.

II. Write notes on: **(8 x 5 = 40)**

1. Different procedures for masking.
2. Objective calibration of AC transducers.
3. BC speech audiometry.
4. Factors affecting BC threshold.
5. Basics and importance of case history.
6. What is jnd? What are the clinical applications?
7. Equal loudness contours and its application.
8. Types of audiograms with examples.

III. Short answers on: **(5 x 3 = 15)**

1. Weber's fraction.
2. Consanguinity.
3. Permissible noise levels in audiometric room.
4. Word recognition scores.
5. Decibel.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2344

(AUGUST 2020 EXAM SESSION)

BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

SEMESTER - II (Regulation 2017-2018)

PAPER IV – AUDIOLOGY

Q.P. Code : 802344

Time: Three hours

Answer ALL Questions

Maximum: 75 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Procedure and applications of speech audiometry.
2. Purpose and rationale of clinical masking.

II. Write notes on:

(8 x 5 = 40)

1. Magnitude estimation and production.
2. Weber's fraction and intensity discrimination.
3. Audiometric version of Weber and Bing test.
4. Clinical method of threshold estimation.
5. Procedures and applications of word recognition scores.
6. Different procedure for masking.
7. Importance and procedure for speech audiometry.
8. Factors to be included in case history for adults.

III. Short answers on:

(5 x 3 = 15)

1. Equal loudness level contours.
2. Need for case history.
3. Audiogram.
4. Procedure and applications of speech detection threshold.
5. Daily listening checks.

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

[AHS 0422]

APRIL 2022

Sub. Code: 2344

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSIONS)

BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

SEMESTER - II (Regulation 2017-2018)

PAPER IV – AUDIOLOGY

Q.P NO. 802344

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on : (2X10=20)

1. Objective and subjective calibration of air conduction transducers.
2. Clinical methods for threshold estimation.

II. Write Notes on : (8X5=40)

1. Plateau method of masking.
2. BC – speech audiometry.
3. Factors affecting air conduction testing.
4. Importance of case history.
5. Scales of pitch.
6. Parts of the 2-channel diagnostic audiometer with diagram.
7. Factors affecting speech audiometry.
8. Calibration of bone vibrator.

III. Short Answers on : (5X3=15)

1. Temporal resolution.
2. Bing test.
3. Different transducers used for hearing assessment.
4. Roll over index.
5. Need for masking.

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

[AHS 0423]

APRIL 2023

Sub. Code: 2344

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - II (Regulation 2017-2018 onwards)**

PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on : (2X10=20)

1. Case history – Need and essential factors to be included for Children and Adults.
2. (a) Classification of Audiometers.
(b) Label and explain the parts of the Audiometer with a neat diagram.

II. Write Notes on : (8X5=40)

1. Purpose and rationale of Clinical masking.
2. Audiometric version of Weber and Bing test.
3. Factors affecting Air Conduction Thresholds.
4. Loudness scales.
5. Procedures and application of Speech Audiometry.
6. Daily listening check and subjective calibration.
7. Various configurations of Audiograms.
8. Define Pitch and write about scales of Pitch.

III. Short Answers on : (5X3=15)

1. Stimuli used for masking.
2. PIPB function.
3. Natal causes for hearing loss.
4. Importance of Speech Audiometry.
5. Audiogram.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2344

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - II (Regulation 2017-2018 onwards)**

PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on : **(2 X 10 = 20)**

1. Explain the different methods of Threshold estimation.
2. Define Interaural attenuation. What are the factors affecting Interaural attenuation? Role of IA in masking.

II. Write Notes on : **(8 X 5 = 40)**

1. What is equal loudness level contours. Mention its applications.
2. Explain the need for cast history.
3. Factors affecting Air Conduction Thresholds.
4. Draw an Audiometer and explain its parts.
5. Mention the purpose of clinical masking. What are the different types of stimulus employed in clinical masking?
6. Audiometric vs Turning Fork Bing test.
7. Explain about magnitude estimation magnitude production.
8. Explain the procedure of Rinne test. What are the advantages and disadvantages?

III. Short Answers on : **(5 X 3 = 15)**

1. Weber's fraction.
2. Phonemically balanced.
3. Duration discrimination.
4. Speech detection threshold.
5. Masking for Speech Audiometry.

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

[AHS 1124]

NOVEMBER 2024

Sub. Code: 2344

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - II (Regulation 2017-2018 onwards)**

PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Answer All Questions

Maximum: 75 Marks

I. Elaborate on:

(2 X 10 = 20)

1. Explain in detail about objective calibration of bone conduction transducers.
2. Describe about different tests employed in Speech Audiometry and its applications.

II. Write notes on:

(8 X 5 = 40)

1. What are the essential factors to be included in case history for children?
2. What are the different procedures for masking?
3. Explain with example the interpretation of case history.
4. Illustrate Audiogram with a neat diagram along with symbols used.
5. Describe the Audiometric version of Weber tuning fork test.
6. Explain about permissible noise levels in Audiometric room.
7. Describe about BC Speech Audiometry and its applications.
8. Equal Loudness Contours.

III. Short answers on:

(5 X 3 = 15)

1. Principle of Weber test.
2. Frequency discrimination.
3. Phonetically balanced.
4. Differential sensitivity.
5. Speech reception thresholds.

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

[AHS 0425]

APRIL 2025

Sub. Code: 2344

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - II (Regulation 2017-2018 onwards)**

PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Answer All Questions

Maximum: 75 Marks

I. Elaborate on:

(2 X 10 = 20)

1. Principles, procedure, interpretation, advantages and disadvantages of Rinne and Weber test.
2. What is Masking? Need for AC (Air Conduction) and BC (Bone Conduction) Masking, criteria and interpretation.

II. Write Notes on :

(8 X 5 = 40)

1. Procedure for daily listening check.
2. Test for assessing temporal resolution.
3. Specifications of Audiometric test room and permissible noise level.
4. Compare the different stimuli used for Speech Audiometry.
5. Criteria and procedure for Speech Audiometry masking.
6. Various configurations of Audiogram.
7. Pre-natal and Peri-natal causes for sensorineural hearing loss.
8. Schwabach test.

III. Short Answers on:

(5 X 3 = 15)

1. Reason for increased interaural attenuation of insert earphones.
2. Masking dilemma.
3. Phon and sone.
4. Weber's fraction.
5. Dynamic range.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 2344

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - II (Regulation 2017-2018 onwards)**

PAPER IV – AUDIOLOGY

Q.P. Code: 802344

Time: Three Hours

Answer All Questions

Maximum: 75 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Explain in detail about objective calibration of air conduction transducers.
2. Briefly describe the different types of stimuli used in Speech Audiometry.

II. Write Notes on:

(8 x 5 = 40)

1. Explain the characteristics and specification of transducer used in earphones, bone vibrator and loud speakers.
2. What is Steven's Power Law?
3. Explain PIPB function and its applications.
4. What are the applications of just noticeable difference (JND).
5. Factors affecting bone conduction threshold.
6. "When to mask and how to mask" – brief about the importance of adequate noise levels.
7. Explain the different loudness scales.
8. What are the essential factors to be included in case history for adults?

III. Short Answers on :

(5 x 3 = 15)

1. Classification of Audiometers.
2. Intensity discrimination.
3. Temporal resolution.
4. Clinical masking.
5. Word recognition scores.
