

B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

THIRD YEAR

PAPER IV – REHABILITATIVE AUDIOLOGY

Q.P. Code: 802324

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the components of Cochlear implant in detail with a neat diagram
2. Write a therapy plan for speech reading in 5 year old child. What are the modifications you do for speech reading in the environment?
3. What are the management options available for a child with cochlear aplasia. Critically evaluate the treatment options.

II. Write notes on:

(8 x 5 = 40)

1. Types of cochlear implant.
2. Programming cochlear implants.
3. Speech characteristic of severe hearing impaired children.
4. Auditory perceptual difficulties in children with fluctuating conductive hearing loss.
5. Compare analytic and synthetic speech reading methods.
6. Auditory tracking.
7. Steps in Auditory training.
8. Selection of Assistive listening devices.

III. Short Answers on:

(10 x 3 = 30)

1. Neural response telemetry.
2. Mapping.
3. Homophenes.
4. Fine auditory discrimination.
5. Telephone amplifiers.
6. Tinnitus maskers.
7. Discriminate auditory awareness vs discrimination.
8. Differentiate hearing and listening.
9. McGurk effect.
10. Any two stages in auditory development.

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Q.P. Code: 802324

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Elaborate on management of children with CAPD?
2. Explain Auditory Verbal Therapy?
3. Define speech reading and what are the factors affecting speech reading?

II. Write notes on:

(8 x 5 = 40)

1. Note on alerting devices that can be used in children with hearing loss.
2. What are the speech characteristics that can be seen in a congenitally deaf hearing impaired patient?
3. Devices used in the management of hyperacusis and tinnitus.
4. Components of CI.
5. Finger spelling and TADOMA.
6. Write a note on FM and induction loop system with its advantages and disadvantages.
7. Advantages and complications of Brainstem implant.
8. Give in detail the management option that can be given for a patient 68 years old diagnosed with bilateral moderately severe SN hearing loss.

III. Short Answers on:

(10 x 3 = 30)

1. Candidacy for Middle ear implant.
2. What are the benefits of various communication strategies?
3. What is cued speech.
4. Write a note on F0/F2 strategy.
5. Give any two activities for speech reading.
6. Compare and contrast bone conduction hearing aids and BAHA?
7. Need for early intervention of hearing impaired children.
8. Write the advantages of induction loop system.
9. ALD s for Deaf-Blind.
10. Management options for tinnitus.

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Q.P. Code: 802324

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain in detail the factors affecting speech reading.
2. Explain the components of cochlear implant along with its basic functions.
3. A 76 years old male patient comes for hearing aid fitting. Explain in detail the steps you would follow to fit the hearing aid.

II. Write notes on:

(8 x 5 = 40)

1. Hard wired system with advantages and disadvantages.
2. Bone conduction hearing aids Vs Bone anchored hearing aids.
3. The need for speech reading.
4. Methods to improve SNR in a classroom for Hearing Impaired children.
5. Hyperacusis? Explain three management options for the same.
6. Management program for a deaf blind child.
7. Assistive listening devices that use visual modality.
8. Compare and contrast speech reading and lip reading.

III. Short Answers on:

(10 x 3 = 30)

1. Temporal ordering.
2. TADOMA.
3. AVT.
4. ALD.
5. Speech tracking.
6. Auditory figure ground.
7. Early intervention.
8. Draw and label the parts of a cochlear implant.
9. Preferential seating.
10. Auditory training.

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Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain various factors affecting auditory training in children.
2. What are various devices currently available for the management of the multiple handicapped children?
3. What are the principles and technology behind various implantable devices available for hearing impairment?

II. Write notes on:

(8 x 5 = 40)

1. Any two test for assessing speech reading ability.
2. Definition of auditory training.
3. Auditory training for adults.
4. Methods of speech reading.
5. Components of middle ear implant.
6. Candidacy of BAHA.
7. Speech encoding strategies.
8. Neural response telemetry.

III. Short Answers on:

(10 x 3 = 30)

1. Homophene.
2. Types of bone anchored hearing aid.
3. Steps in Erber's method of auditory training.
4. Types of Hyperacusis.
5. Dichotic task.
6. Alerting devices.
7. Devices for tinnitus management.
8. Auditory ALDs.
9. Telephone training.
10. Brainstem implant.

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Q.P. Code: 802324

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain components of cochlear implant in detail with neat diagram.
2. Explain auditory training and its methods with suitable examples.
3. Explain about tinnitus, its assessment and management for a person with hearing impairment.

II. Write Notes on:

(8 x 5 = 40)

1. Speech reading.
2. Speech characteristics of children with severe hearing impairment.
3. Management of deaf blind child.
4. Candidacy for bone anchored hearing aid.
5. Compensatory strategies for an adult with hearing impairment.
6. Deficit specific treatment approach for CAPD.
7. Visual assistive listening device.
8. Factors affecting auditory training.

III. Short Answers on:

(10 x 3 = 30)

1. Viseme.
2. Contraindication for middle ear implant.
3. Vestibular hyperacusis.
4. Residual inhibition.
5. Pitch matching.
6. Acoustic highlighting.
7. TADOMA.
8. Auditory closure.
9. Tactaid.
10. Analytical approach for speech reading.

[LJ 0816]

AUGUST 2016

Sub. Code: 2324

**B.Sc. AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY
THIRD YEAR
PAPER IV – REHABILITATIVE AUDIOLOGY**

Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain various methods of training for speech reading in detail.
2. Explain the role of audition in speech and language development and its application in hearing impaired children.
3. Describe various components of cochlear implant with a neat diagram.

II. Write notes on:

(8 x 5 = 40)

1. Visual Assistive listening devices.
2. Brainstem implants.
3. Burglar alarm.
4. Tadoma.
5. Speech characteristics of severe hearing impaired children.
6. Effect of age and motivation in auditory training.
7. Test for speech reading abilities.
8. Communication strategies.

III. Short answers on:

(10 x 3 = 30)

1. Viseme.
2. Phonemic regression.
3. Acoustic highlighting.
4. Percutaneous BAHA.
5. Auditory closure.
6. Vibrotactile devices.
7. Auditory visual perception.
8. Natural approach for auditory training.
9. Speech processor.
10. Single channel vs Multichannel cochlear implants.

**B.Sc. AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY
THIRD YEAR
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Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Write an auditory training program for 3 year old child with hearing impairment.
2. Compare selection criteria's for various implantable devices available in the market.
3. Explain assistive listening devices in detail.

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

1. Tinnitus retraining therapy.
2. Auditory verbal therapy.
3. Factors influencing speech reading.
4. Definition and historical background of auditory training.
5. Management of deaf blind child.
6. Deficit specific intervention in CAPD.
7. Auditory training in elderly population.
8. Compare individual vs group auditory training.

III. Short answers on: **(10 x 3 = 30)**

1. Visual characteristics of bilabials.
2. Auditory memory.
3. Anticipatory strategies.
4. Missing letter exercises.
5. Mnemonics.
6. Glove method.
7. Burglar alarm.
8. Channel vs frequency bands.
9. Continuous interleaved sampling strategy.
10. Non wearable tinnitus maskers.

**B.Sc. AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY
THIRD YEAR
PAPER IV – REHABILITATIVE AUDIOLOGY**

Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain various intrinsic and extrinsic factors of cochlear implant child to determine prognosis in auditory verbal therapy.
2. Describe visual characteristics of speech sound in detail with its application on hearing impaired individuals.
3. Explain various sound therapy options for individuals with tinnitus.

II. Write notes on:

(8 x 5 = 40)

1. Transcutaneous Bone anchored Hearing aid.
2. Alerting devices.
3. Auditory comprehension.
4. Tactile devices for deaf blind.
5. Speech coding strategies in cochlear implant.
6. Synthetic method for speech reading.
7. Telephone training.
8. Auditory brainstem implant.

III. Short answers on:

(10 x 3 = 30)

1. Phonemic regression.
2. Auditory closure activities.
3. Speech in noise training.
4. Group therapy.
5. McGurk effect.
6. Hyperacusis.
7. Objective tinnitus.
8. Optical character recognition.
9. Sensors in alerting devices.
10. Anticipatory strategies.

**BACHELOR IN AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY
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Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe auditory, visual and tactile assistive listening devices.
2. Management options for individuals with multiple handicapped hearing impaired children.
3. Explain various components of cochlear implant in detail.

II. Write notes on:

(8 x 5 = 40)

1. Tinnitus retraining therapy.
2. Candidacy selection for speech reading.
3. Acoustic highlighting.
4. Communication strategies.
5. Candidacy selection for assistive listening devices.
6. Influence of hearing loss on speech production.
7. Neural response telemetry.
8. Rehabilitation of individuals with auditory neuropathy.

III. Short answers on:

(10 x 3 = 30)

1. Analytical approach.
2. Auditory awareness.
3. Critical age concept.
4. Note takers.
5. Tadoma.
6. Aural oral approach.
7. Mapping.
8. Contraindication for conventional hearing aid.
9. Osseointegration.
10. Tinnitus handicap inventory.

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Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Components, candidacy, advantages and complications for middle ear implants and BAHA.
2. Management of multi handicapped hearing impaired children.
3. Factors affecting the efficacy of auditory training.

II. Write notes on:

(8 x 5 = 40)

1. SKI-HI Approach.
2. Active Listening Strategies in APD Management.
3. Remediation Activities for Binaural Integration Deficits.
4. Muller – Walle Method of Speech Reading.
5. Steps in Auditory verbal therapy.
6. Behavioural management of CAPD.
7. Candidacy and Contraindications of Cochlear implants.
8. Methods used in speech reading training.

III. Short answers on:

(10 x 3 = 30)

1. Tinnitus and types of tinnitus.
2. Content Schema Induction.
3. Components of BAHA.
4. Neural response telemetry.
5. Telephone amplifiers.
6. McGurk effect.
7. CUED speech.
8. FM system.
9. Group Therapy for individuals with hearing loss.
10. Role of parents in auditory habilitation.

BACHELOR IN AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY

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Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Components, candidacy, advantages and complications for brainstem implants.
2. Management of children with central auditory processing disorder.
3. Speech and language deficits in children with hearing impairment.

II. Write notes on:

(8 x 5 = 40)

1. Auditory Verbal Therapy.
2. Developmental approach to successful listening.
3. Remediation activities for Auditory Closure Deficits.
4. Computer-based auditory training.
5. Speech tracking.
6. Management of tinnitus.
7. Candidacy and Contraindications of cochlear implants.
8. Management of individuals with deaf blindness.

III. Short answers on:

(10 x 3 = 30)

1. Auditory Discrimination Vs. Auditory identification with examples.
2. Binaural separation and Binaural Integration.
3. Components of cochlear implants.
4. Kinzie method of speech reading.
5. Hyperacusis.
6. Tinnitus instruments.
7. TADOMA.
8. Induction loop system.
9. Vibrotactile devices.
10. Need for speech reading.

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THIRD YEAR**

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Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Factors affecting speech reading.
2. Various devices currently available for the multi handicapped hearing impaired children.
3. Management of tinnitus.

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

1. Explain the external components of cochlear implant.
2. Management of deaf blind child.
3. Visual assistive listening device.
4. Factors affecting auditory training.
5. Communication strategies.
6. Candidacy selection, components and advantages of brainstem implants.
7. Individual vs group speech reading training.
8. Synthetic method of speech reading.

III. Short answers on: **(10 x 3 = 30)**

1. Burglar alarm.
2. Acoustic highlighting.
3. Indications for BAHA.
4. Tinnitus maskers.
5. Classification of ALDs with examples.
6. Dichotic task.
7. Devices for hyperacusis.
8. AVT.
9. Speech tracking.
10. Cued speech.

**BACHELOR IN AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY
THIRD YEAR**

PAPER IV – REHABILITATIVE AUDIOLOGY

Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Candidacy selection, components and advantages of cochlear implant.
2. Methods of auditory training and the factors to be considered.
3. Explain role of audiologist in pre-implant evaluation and post operative management.

II. Write notes on:

(8 x 5 = 40)

1. Define speech reading. Explain analytical method.
2. Role of audition in speech and language development of normal children and its application in education of hearing impaired.
3. Criteria's for selection of ALDs.
4. Effect of age and motivation in auditory training.
5. Speech characteristics of individual with hearing impairment.
6. Auditory verbal therapy.
7. Tests for speech reading ability.
8. Methods to improve SNR in classroom for hearing impaired.

III. Short answers on:

(10 x 3 = 30)

1. Alerting devices.
2. Auditory memory.
3. Burglar alarm.
4. Localization training.
5. Pitch matching.
6. Brainstem implant.
7. Tinnitus maskers.
8. Neural response telemetry.
9. Homophenes.
10. Importance of early intervention in hearing impaired children.

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

[LR 1220]

**DECEMBER 2020
(AUGUST 2020 EXAM SESSION)**

Sub. Code: 2324

BACHELOR IN AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY

THIRD YEAR – (Regulation from 2010-2011)

PAPER IV – REHABILITATIVE AUDIOLOGY

Q.P. Code: 802324

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Essay on Assistive Listening Devices .
2. Bone Anchored Hearing Aid and its components, candidacy and advantages.
3. Essay on management options for children with Central Auditory Processing problems.

II. Write notes on:

(8 x 5 = 40)

1. Tests for Speech Reading Ability.
2. Factors influencing Speech Reading.
3. Devices based management for Tinnitus.
4. Management options for Hyper Acusis.
5. Auditory verbal therapy.
6. Candidacy, components, and advantages for Cochlear Implant.
7. Management for Multi Handicapped Hearing impaired children.
8. Individual Vs Group Auditory training.

III. Short answers on:

(10 x 3 = 30)

1. Definition of Speech Reading.
2. Communication strategies.
3. Speech reading activities.
4. Alerting devices Vs Devices for Speech Perception.
5. Advantages of Brainstem Implants.
6. Speech characteristics of children with Hearing impairment.
7. Audio visual Vs Visual Perception.
8. Definition of Auditory training.
9. Needs of Speech reading.
10. Definition and types of Tinnitus.

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

[AHS 0122]

JANUARY 2022

Sub. Code: 2324

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

THIRD YEAR – (Regulation from 2010-2011)

PAPER IV – REHABILITATIVE AUDIOLOGY

Q.P. Code: 802324

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. Essay on Auditory training.
2. Cochlear Implant and its components, candidacy and advantages.
3. Essay on rehabilitation for elderly population with Hearing Loss.

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

1. Write about BAHA.
2. Management options for Tinnitus.
3. Management of Multiple Disability with Hearing Loss .
4. Factors influencing Reading .
5. Explain stages of Auditory Verbal therapy.
6. Assistive Listening Devices.
7. Test for Speech reading ability and Indian tests.
8. Visibility of Speech Sounds.

III. Short answers on: **(10 x 3 = 30)**

1. What is Tactile response.
2. Aided Audiogram.
3. Speech banana.
4. Types of Hearing Aids.
5. Components of Hearing Aids.
6. Class of Hearing Aids.
7. Group Auditory Training.
8. Presbycusis.
9. Gross discrimination.
10. Definition and types of Hyperacusis.
