

**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST SEMESTER (2017 - 2018)**

**PAPER I – COMMUNICATION SCIENCES**

*Q.P. Code: 802331*

**Time: Three Hours**

**Maximum : 75 Marks**

**Answer All questions**

**Draw diagrams wherever necessary**

**I. Elaborate on:**

**(2 x 10 = 20)**

1. Explain normal development of speech.
2. Historical aspects of the field of Speech and Language.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are the cultural aspects in communication?
2. What are the various settings of service delivery for audiologist?
3. Factors affecting Language development.
4. Explain Staircase procedure of estimating minimum audible level.
5. Team approach for Communication disorders.
6. Similarities between Speech, Language and Communication.
7. Inter-dependency between Communication, Hearing, Speech and Language.
8. Acoustic features of Speech sounds

**III. Short answers on:**

**(5 x 3 = 15)**

1. Define Frequency response.
2. Threshold of pain.
3. Periodic Vs Aperiodic sounds.
4. Define Language.
5. Missing 6dB.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST SEMESTER (2017 - 2018)**

**PAPER III – CLINICAL PSYCHOLOGY**

*Q.P. Code: 802333*

**Time: Three Hours**

**Maximum : 75 Marks**

**Answer All questions**

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

1. Define clinical psychology. Explain the scope of psychology.
2. Discuss the Jean Piaget's cognitive theory in detail.

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

1. Discuss the Skill behavior and problem behavior techniques.
2. Explain the social development from early childhood period to adolescent period.
3. Describe the concept of Abnormality.
4. What is a characteristic of good counselor?
5. Discuss the classification of abnormal behavior.
6. Explain behavioral assessment in children.
7. How do you assess the personality of an individual?
8. Stages of Motor development- explain.

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

1. Abnormal Psychology.
2. Any two scopes of clinical psychology.
3. Psychological models of mental disorder.
4. VSMS.
5. Trail and error learning theory.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST SEMESTER (2017 - 2018)**

**PAPER V – ELECTRONICS AND ACOUSTICS**

*Q.P. Code: 802335*

**Time: Three Hours**

**Maximum : 75 Marks**

**Answer All questions**

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

1. Explain DC power supplies in detail.
2. Explain principle, components, types and working of loud speakers.

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

1. Light emitting diodes.
2. Uninterrupted power supply.
3. Couplers and it's types.
4. Audiometric rooms.
5. Block diagram and operation of hearing aids.
6. Flip flops.
7. Reflection and absorption.
8. Memory devices of computer.

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

1. Electrodes.
2. Diodes.
3. Stabilizers.
4. Counters.
5. Optical memory devices.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST SEMESTER (2017 - 2018)**

**PAPER IV – LINGUISTICS AND PHONETICS**

*Q.P. Code: 802334*

**Time: Three Hours**

**Maximum : 75 Marks**

**Answer All questions**

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

1. Explain in detail about writing systems and types of writing.
2. Explain in detail about morphology.

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

1. What are the applications of syntactic analysis in speech and language therapy?
2. Notes on pragmatics and discourse.
3. Explain shortly on classifications of speech sounds.
4. Write notes on types of phonetics.
5. Branches of linguistics.
6. Difference between first and second language acquisition.
7. What are the common phonological processes?
8. Notes on morphology.

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

1. Inflection and derivation.
2. Phonemic analysis.
3. Content and function words.
4. Language and cognition.
5. Speech sound production.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST SEMESTER (2017 - 2018)**

**PAPER VI – RESEARCH METHODS AND STATISTICS**

*Q.P. Code: 802336*

**Time: Three Hours**

**Maximum : 75 Marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 10 = 20)**

1. Discuss the research protocol methodology in speech therapy.
2. Discuss the variability of the data is extent to which a distribution is stretched or squeeze and its significance in the study?

**II. Write notes on:**

**(8 x 5 = 40)**

1. Randomized control Trial.
2. Central tendency of the data and its importance in the research.
3. Non probability sampling.
4. Parametric and Non parametric test.
5. Test of significance.
6. observational study.
7. Independent t test.
8. ANOVA.

**III. Short answers on:**

**(5 x 3 = 15)**

1. Coefficient of variation.
2. Critical region.
3. Regression.
4. Rate, Ratio, Propotion.
5. Ways to reduce the error in the data.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the ascending and descending auditory pathway with a neat diagram.
2. Explain the transformer action of the middle ear.
3. List the causes of congenital and acquired hearing loss.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What is cochlear microphonics?
2. What is pinna shadow effect?
3. Explain the growth of Audiology since World War II.
4. Explain the loudness contour.
5. Write the properties of the DB scale.
6. What is monaudiometry's syndrome?
7. What are the precautions you take while testing for AC and BC?
8. What is Bing test?

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is acquired hearing loss?
2. What is localization?
3. Draw and label the parts of the stapes.
4. List any 6 syndromes associated with hearing loss.
5. What is pitch?
6. What is resonance frequency?
7. What are standing waves?
8. What is MAF?
9. List the test for posture and equilibrium.
10. What are the benefits of binaural hearing?

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[LA 0811]

FEBRUARY 2012

Sub. Code: 2303

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Any three sensorineural causes of hearing loss.
2. Principle, procedure and interpretation of audiometric version of weber and Bing test.
3. Instrumental calibration of AC transducer.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Importance of case history.
2. MAP and MAF.
3. Anatomy of tympanic membrane.
4. OHCs Vs IHCs.
5. Role of binaural hearing.
6. Factors affecting IA.
7. Fusion Infered test.
8. Otosclerosis.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Inertial mode of bone conduction hearing.
2. SAL test.
3. Audiometric zero.
4. RETSPL.
5. Phones and sones.
6. DLI.
7. Narrow band noise.
8. Calibration of audiometer.
9. Masking.
10. Shadow curve.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY****FIRST YEAR****PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES***Q.P. Code: 802303***Time : Three Hours****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>
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- |  |   |         |    |
|--|---|---------|----|
| 1. The three theories of bone conduction.  | 7 | 20 min. | 10 |
| 2. Anatomy of the inner ear with appropriate diagrams.                               | 7 | 20 min. | 10 |
| 3. Contents of paediatric case history and its relevance in audiological evaluation. | 7 | 20 min. | 10 |

**II. Write Notes on:**

- |   |   |         |   |
|---|---|---------|---|
| 1. The various branches of audiology.   | 4 | 10 min. | 5 |
| 2. Merits, demerits and interpretation of Rinne test.   | 4 | 10 min. | 5 |
| 3. Inter aural attenuation and the different modes of crossover.  | 4 | 10 min. | 5 |
| 4. Different audiometric configurations associated with various pathologies.  | 4 | 10 min. | 5 |
| 5. Phons and Sones.   | 4 | 10 min. | 5 |
| 6. Free field testing.  | 4 | 10 min. | 5 |
| 7. Characteristics of binaural hearing. Explain the role of inter aural level and inter aural phase differences in binaural hearing.  | 4 | 10 min. | 5 |
| 8. What is the sound pressure level of a sound whose absolute pressure is $4 \times 10^4 \mu\text{Pa}$ (sound pressure reference- $2 \times 10^1 \mu\text{Pa}$ ) .[Given $\log 2 = .3, \log 3 = .47$ ]. | 4 | 10 min. | 5 |

**III. Write Answers on:**

- |   |   |        |   |
|---|---|--------|---|
| 1. Cone of light.   | 2 | 4 min. | 3 |
| 2. The clinical features of any 3 syndromes associated with hearing loss and their type of inheritance. | 2 | 4 min. | 3 |
| 3. When masking should be done for air conduction and its purpose.                                      | 2 | 4 min. | 3 |
| 4. Remote masking and central masking.  | 2 | 4 min. | 3 |
| 5. Sound pressure and power.  | 2 | 4 min. | 3 |
| 6. Difference limen for intensity.  | 2 | 4 min. | 3 |
| 7. Types of masking noises.   | 2 | 4 min. | 3 |
| 8. Differences between echo and reverberation.  | 2 | 4 min. | 3 |
| 9. Draw and label the parts of the auricle.   | 2 | 4 min. | 3 |
| 10. Posterior wall of middle ear.   | 2 | 4 min. | 3 |

[LC 0212]

FEBRUARY 2013

Sub. Code: 2303

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Theories of Bone Conduction.
2. Factors affecting air conduction thresholds in Puretone Audiometry.
3. Draw a neat diagram of Organ of Corti and explain its parts.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Branches of audiology.
2. Muscles of middle ear.
3. Semi-circular canals.
4. Decibel.
5. Occlusion effect.
6. Types of stimuli used for masking.
7. Types of audiometers.
8. Criteria used for air conduction and bone conduction masking.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Mel.
2. Transduces.
3. Wardenberg Syndrome.
4. Calibration.
5. Binaural Hearing.
6. Carhart notch.
7. Interaural attenuation.
8. Otoscope.
9. Pinna effect.
10. Nystagmus.

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[LD 0212]

AUGUST 2013

Sub. Code: 2303

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Procedures involved in AC and BC testing in PTA
2. Highlight the importance of case history in identifying the cause of hearing loss.
3. Ascending and descending Auditory and vestibular pathways.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Binaural hearing.
2. Branches of Audiology.
3. Phones and sones.
4. Masking dilemma in bilateral symmetrical conductive hearing loss.
5. Schwabath test.
6. Equal Loudness contours.
7. MAF and MAP.
8. Biological calibration.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Action Potentials.
2. Cochlear microphonics.
3. dL for frequency.
4. dL for intensity
5. Head shadow effect.
6. Pinna shadow effect.
7. Types of masking noise.
8. Bing Test.
9. Define Masking.
10. Interaural Attenuation.

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[LE 0212]

FEBRUARY 2014

Sub. Code: 2303

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Critically evaluate theories of bone conduction.
2. Causes of hearing loss in children.
3. Middle ear transformer action.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Walls of the middle ear.
2. Factors aiding the localization in horizontal plane.
3. Scope of Audiology.
4. Tuning fork tests.
5. Minimal audible pressure & Minimum audible field.
6. Different audiogram patterns.
7. Case history in audiology.
8. Central auditory pathway.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Outer hair cell.
2. Eustachian tube-differences between adults and paediatric population.
3. Muscles associated with Eustachian tube functioning.
4. Interaural attenuation.
5. Sones & phones.
6. Pinna.
7. Classification of hearing loss based on degree.
8. Semicircular canals.
9. Acoustic reflex.
10. Critical band concept in masking.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the blood supply to cochlea with a neat diagram.
2. Elaborate on methods of testing AC procedures.
3. What are tuning fork tests? Explain any two in detail.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the factors to consider while constructing an audiometric room.
2. Explain the importance of casehistory in identifying the type and degree of hearing loss.
3. With a neat block diagram explain the parts of an audiometer.
4. Elaborate on the minimum effective masking level for BC masking.
5. Explain the differences between screening and diagnostic pure tone testing.
6. What is linearity check? Explain the objective calibration of bone vibrator.
7. Explain the factors affecting Interaural Attenuation.
8. Explain the non genetic causes of hearing loss.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is zero dB?
2. What is occlusion effect?
3. Name the transducers used in puretone testing.
4. When do we get a corner audiogram?
5. What is the rationale behind using pure tones in testing hearing sensitivity?
6. What is head shadow effect?
7. What is the importance of using insert earphones during masking?
8. Which organs in the ear help maintain balance and equilibrium?
9. What is biological calibration?
10. What are the materials used for testing speech recognition threshold?

[LH 0815]

AUGUST 2015

Sub. Code: 2303

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Scope of audiology.
2. Physiology of the inner ear.
3. Theories of bone conduction.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Descending auditory pathway.
2. Factors affecting pure tone audiometry.
3. Screening vs diagnostic testing.
4. Different noise used in audiometric testing.
5. Rinne test with its interpretation, merits and demerits.
6. Difference limen for intensity and frequency.
7. Genetic causes of hearing loss.
8. Staircase method for estimating threshold.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Branches of audiology.
2. Define: Threshold of audibility.
3. Masking dilemma.
4. Weber's law.
5. Body baffle effect.
6. Localization and lateralization.
7. Occlusion effect.
8. Permissible ambient noise in audiometric rooms.
9. Cross over and cross hearing.
10. SRT and SRS.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

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

1. What is sound? Explain the encoding of sound parameters in auditory system.
2. Describe various branches of audiology and its scope in India.
3. Describe various causes of conductive hearing loss.

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

1. Compare Air conduction and bone conduction mechanisms.
2. Differentiate central versus peripheral hearing loss.
3. Mel and Bark scale.
4. Osseo tympanic mode of bone conduction.
5. Fourier analysis of complex tones.
6. How do you find out the relative loudness of 2 different sounds?
7. Write a case demonstration with masking dilemma.
8. Chronic otitis media.

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

1. Types of stimuli used for audiometric testing.
2. What are the AC transducers used for determining thresholds?
3. Loudness matching.
4. Pressure equalization tubes.
5. Eustachian tube and its function.
6. Pediatric audiology.
7. Outer hair cells.
8. Head shadow effect.
9. Cross hearing.
10. Sloping hearing loss.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

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

1. How do you test the hearing loss and real life performance of the subject with hearing loss using audiometer?
2. How middle ear acts as a n impedance matching system? Explain the function of middle ear in detail.
3. Explain the various neurological causes of hearing loss with its clinical characteristics.

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

1. Compare MAP and MAF.
2. Development of field of Audiology in India.
3. What happens when you add tone of different frequencies with same intensity? Explain with examples.
4. Various classification of audiograms.
5. Explain various subjects related factors affecting pure tone thresholds.
6. Explain plateau method in detail.
7. Explain procedure for audiometric weber test.
8. What are the psychophysical scales used to measure sound perception?

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

1. Masker and its types.
2. Differentiate ear canal occlusion and stenosis.
3. Compare various BC transducers.
4. Sound field testing.
5. Late onset hearing loss.
6. Action potentials.
7. Linear acceleration.
8. Schwabach test.
9. Biological Calibration.
10. Listening check of audiometers.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Evolution and development of the field of audiology.
2. How middle ear acts as a transformer to facilitate hearing?
3. Draw a neat diagram and explain the ascending auditory pathway.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Distinguish between MAP and MAF.
2. Functions of utricle.
3. Explain weighting networks.
4. Different stages of progression of otitis media.
5. Explain the procedure, interpretation, merits and demerits of Rinne test.
6. What are the transducers used to perform pure tone audiometry?
7. Theories of bone conduction.
8. How thresholds are plotted in an audiogram?

**III. Short answers on:**

**(10 x 3 = 30)**

1. High risk factors causing congenital hearing loss.
2. Cochlear microphonics.
3. Occlusion effect.
4. Phones.
5. Exostosis.
6. Function of stapedius muscle.
7. Draw a neat diagram of audiometer and label the parts.
8. Pinna shadow effect.
9. Volley theory.
10. Carhart notch.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**  
**FIRST YEAR**  
**PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Illustrate the middle ear system with a neat diagram.
2. Importance of case history in aiding the diagnosis.
3. Explain the scope of audiology as a profession.

**II. Write notes on:**

**(8 x 5 = 40)**

1. TORCH complex.
2. Relation between phones and sones.
3. Distinguish between outer hair cell and inner hair cell.
4. Explain equal loudness contours.
5. Function of saccule.
6. Explain the procedure and interpretation of Schwabach test.
7. What are the different branches of audiology?
8. Noise induced hearing loss.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define threshold.
2. A - weighting network.
3. Cone of Light.
4. Minimal Audible Pressure.
5. Binaural summation.
6. Action potentials.
7. Cortilymph.
8. Timbre.
9. Pendred syndrome.
10. Interpretation of bing test.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER III – INTRODUCTION TO HEARING AND HEARING SCIENCES**

*Q.P. Code: 802303*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the transformer action of the middle ear.
2. Theories of bone conduction.
3. Describe various branches of audiology and its scope in India.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Phones and Sones.
2. Audiogram Configurations.
3. Fourier Analysis.
4. Interaural attenuation.
5. Genetic causes of hearing loss.
6. Tuning fork tests.
7. Bing test- procedure, merits and demerits.
8. Equal loudness contours.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Localization.
2. Standing Waves.
3. RET SPL.
4. Calibration.
5. Semicircular canals.
6. Audiometric zero.
7. Threshold of hearing.
8. Permissible noise level in audiometric room.
9. SRT vs SIS.
10. Action Potentials.

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[KZ 0811]

AUGUST 2011

Sub. Code: 2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Speech is an overlaid function.
2. Anatomy and physiology of articulatory system.
3. Cranial nerves along with functions.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Respiration for life and speech.
2. Trachea.
3. Doppler effect.
4. Bases of pitch change mechanism.
5. Non segmental and Segmental basis of speech.
6. Genetic bases of communication.
7. Cerebrum.
8. Phonetics.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Communication.
2. Nasopharynx.
3. Regulation of respiration.
4. Standing wave.
5. Overtones.
6. Fricative and Affricates.
7. Nerve cell.
8. Transcription.
9. Cyanosis.
10. Ecolalia.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY****FIRST YEAR****PAPER I – INTRODUCTION TO HUMAN COMMUNICATION***Q.P. Code: 802301***Time : Three Hours****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>
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- |  |   |         |    |
|--|---|---------|----|
| 1. Classify Speech sounds and write in detail about each.          | 7 | 20 min. | 10 |
| 2. Explain the mechanism of speech production with a neat diagram. | 7 | 20 min. | 10 |
| 3. Describe pitch and loudness changing mechanism in detail.       | 7 | 20 min. | 10 |

**II. Write Notes on:**

- |   |   |         |   |
|---|---|---------|---|
| 1. What are the major work activities of the Speech – Language Pathologist?   | 4 | 10 min. | 5 |
| 2. Write about the development of articulation.   | 4 | 10 min. | 5 |
| 3. Describe the Speech and Language areas in the brain.   | 4 | 10 min. | 5 |
| 4. Write a note on Lung Volumes and Capacities.   | 4 | 10 min. | 5 |
| 5. What is Team approach? Who are all the other professionals concerned in the management of children with communication disorders? | 4 | 10 min. | 5 |
| 6. Discuss various factors that affect speech and language development.   | 4 | 10 min. | 5 |
| 7. Draw a neat diagram of Larynx and write in detail about its anatomy.   | 4 | 10 min. | 5 |
| 8. Write about Helmholtz Resonator.   | 4 | 10 min. | 5 |

**III. Short Answers on:**

- |   |   |        |   |
|---|---|--------|---|
| 1. Define – Speech, Language and Communication.                               | 2 | 4 min. | 3 |
| 2. What is Resonance?   | 2 | 4 min. | 3 |
| 3. What are the different modes of communication?                             | 2 | 4 min. | 3 |
| 4. Write briefly about Loudness and Amplitude.                                | 2 | 4 min. | 3 |
| 5. What is Intonation?  | 2 | 4 min. | 3 |
| 6. Write a note on Facial Nerve.  | 2 | 4 min. | 3 |
| 7. How is respiration for speech different from that of respiration for life? | 2 | 4 min. | 3 |
| 8. What is Diaphragm and mention its functions.                               | 2 | 4 min. | 3 |
| 9. Write about Respiratory Efficiency Test.                                   | 2 | 4 min. | 3 |
| 10. List the characteristics of “Good Speech”.                                | 2 | 4 min. | 3 |

[LD 0212]

AUGUST 2013

Sub. Code: 2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. The basis of pitch and loudness changing mechanisms.
2. Team work in assessment and treatment of communication disorders.
3. Development of articulation.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Development of speech milestones.
2. Speech- Secondary function of larynx.
3. Modes of communication.
4. Manner of articulation.
5. Intrinsic muscles of larynx.
6. Artificial respiration.
7. Role of basal ganglion and cerebellum in speech.
8. Types of nerve fibres.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Doppler effect.
2. EGG.
3. Brodmann's area.
4. IPA.
5. Define communication.
6. Standing waves.
7. Birth asphyxia.
8. Functions of epiglottis.
9. Hypernasality.
10. Residual volume.

\*\*\*\*\*

[LE 0212]

FEBRUARY 2014

Sub. Code: 2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail the anatomy of the nervous system related to speech and language.
2. How speech sounds are classified? Write in detail about each.
3. Delineate the factors that can affect speech and language development.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Is speech, language, communication and hearing interrelated? If yes, how?
2. What are Lung Volumes and Capacities?
3. Write about the development of Voice.
4. Write a note on Thalamus and Basal Ganglion.
5. What is Team approach? Who are all the other professionals concerned in the management of an adult with communication disorders?
6. Describe the pitch and loudness changing mechanism.
7. Explain reflection and absorption of sound wave with an example.
8. Explain various modes of communication.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Explain: "Speech is an overlaid function".
2. Describe the structure of a Neuron.
3. What is Diaphragm and mention its functions.
4. How is respiration for speech different from that of respiration for life?
5. Explain Respiratory Efficiency Test.
6. Write about social bases of human communication.
7. What is a standing wave?
8. Write a note on Intensity and Frequency.
9. What is Stress?
10. Explain Doppler Effect.

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[LF 0212]

AUGUST 2014

Sub. Code: 2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Anatomy of larynx.
2. Factors influencing the development of Speech and language.
3. Physiology of respiratory mechanism and how is respiration different for speech.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Speech, language and communication – interdependency.
2. Major activities of Speech language Pathologist.
3. Classification of consonants based on place of articulation.
4. Muscles of soft palate.
5. Parameters of sound.
6. External respiration.
7. Lobes of cerebrum.
8. Cranial nerves.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Asphyxia.
2. Suprasegmentals.
3. Nerve supply to larynx.
4. Harmonics.
5. Broca's area.
6. Insular lobe.
7. Velopharyngeal closure.
8. Muscles of lips.
9. Bilabial sounds.
10. Neuron.

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[LG 0215]

FEBRUARY 2015

Sub. Code: 2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the divisions and functions of nervous system.
2. Explain the process of speech production.
3. Give a detail account of professions related to the field of speech language pathology.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Classification of consonants.
2. Nerve cell.
3. Human communication.
4. Voice production.
5. Place of articulation.
6. Characteristics of good speech.
7. Anatomy of tongue.
8. Subcortical areas of brain.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Harmonics.
2. Hypoxia.
3. Autonomic nervous system.
4. Delayed speech and language.
5. Mandible.
6. Phonological process.
7. Mention any 3 voice disorders.
8. Motor tracts.
9. Stress.
10. International Phonetic Alphabet.

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[LH 0815]

AUGUST 2015

Sub. Code: 2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What is respiration? How it is different for life and speech?  
Discuss the mechanism of respiration with a neat illustration.
2. What are the characteristics of a “good” clinician and discuss the major work activities of a speech language pathologist in various settings of service delivery?
3. Discuss the development of voice from birth to senescence.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Speech as an overlaid function.
2. Broadman’s areas of the brain with diagram.
3. Differences between transverse and longitudinal waves.
4. Lung volumes and capacities with normative values.
5. Development of articulation.
6. Cerebellum and its function.
7. Interdependency and interrelation between communication speech language.
8. Psychological basis of human communication.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is a sound wave? Discuss the types of sound waves.
2. Define: Hypoxia, Asphyxia, and Cyanosis.
3. What does the resonatory system comprise of?
4. Define Phonetics. What are the branches of phonetics?
5. Define Harmonics and Overtone.
6. What are the structure involved in articulation?
7. Name the major areas of the brain responsible for speech and language function.
8. Basal ganglia?
9. What is linguistics?
10. Differentiate between vowels, semivowels and diphthongs with clear examples.

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[LI 0216]

FEBRUARY 2016

Sub. Code: 2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Discuss the history and scope of the profession of Speech Language Pathology in India.
2. Neatly illustrate the structure of a neuron and discuss in detail, the divisions and functions of the nervous system in the human body.
3. What are the basis of pitch and loudness changing mechanism in voice?

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Write a brief note on other professionals concerned with communication disorders.
2. IPA and its application.
3. How does sound propagate in speech and language?
4. Role of nervous system in speech and language.
5. Respiratory efficiency test.
6. Cerebrospinal fluid and its function.
7. What are the reflexes? Discuss the common seen in infants.
8. Cranial nerves.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Define speech and language.
2. What is Tidal Volume? Give normative measures.
3. Supra segmentals.
4. What is genetics? How is relevant to speech language pathology?
5. Ventricular folds.
6. Helmholtz resonator.
7. Modes of communication.
8. What is synapse?
9. How are consonants classified?
10. Define frequency and pitch.

\*\*\*\*\*

[LJ 0816]

AUGUST 2016

Sub. Code :2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the pre requisites for speech and language development.
2. Write about the origin, course and innervation of any five cranial nerves responsible for speech functions.
3. Explain the development of voice from infancy to old age.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Resonance of a mass spring vibrator.
2. What are the various settings of service delivery for Speech Language Pathologist?
3. Explain speech as an overlaid function.
4. Draw a neat diagram of Broadmann's area and explain its functions.
5. What is the role of respiration for life and for speech?
6. Explain interference.
7. What do you understand by Doppler effect?
8. Explain International Phonetic Alphabet (IPA) and give examples.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Cyanosis.
2. Draw a neat diagram of nerve cell and label the parts.
3. Tidal volume.
4. Explain the suprasegmental feature - stress.
5. Define communication.
6. Semi - vowels.
7. Define phonetics.
8. What are harmonics?
9. Absorption.
10. Progressive Waves.

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[LK 0217]

FEBRUARY 2017

Sub. Code :2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Evolution of the profession of speech language pathology.
2. Explain about the development of articulation from infancy to adulthood.
3. Classification of speech sounds with examples.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Helmholtz resonator.
2. Artificial Respiration.
3. Mention the various work activities of Speech Language Pathologist.
4. Explain the different types of nerve fibers.
5. With a neat diagram explain the different lobes of brain and its functions.
6. Explain the function of cerebellum.
7. Explain how exchange of gases takes place in lungs and tissues?
8. Explain the anatomy of the laryngeal system.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Asphyxia.
2. Constructive interference.
3. Vital capacity.
4. External respiration.
5. Non verbal mode of communication.
6. Define Language.
7. Articulatory phonetics.
8. What are partials?
9. Reflection.
10. Wave propagation.

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[LL 0817]

AUGUST 2017

Sub. Code :2301

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe speech as an overlaid function.
2. What are active and passive articulators? Explain how speech sounds are produced?
3. Divisions and functions of the nervous system.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Respiration for life and speech.
2. Development of voice.
3. Speech and language milestones.
4. Function of communication, speech and language.
5. Suprasegmentals.
6. Development of articulation.
7. Pitch changing mechanism.
8. Anatomy of the nervous system related to speech and language.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Vital capacity.
2. Spinal cord.
3. Social bases of speech.
4. Fundamental frequency.
5. Modes of communication.
6. Residual air.
7. Auditory phonetics.
8. Harmonics
9. Standing waves.
10. Cyanosis.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the pitch and loudness changing mechanism.
2. Describe the normal Speech and Language development.
3. Explain the difference between speech breathing and breathing for life.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the components of language.
2. Role of a speech pathologist.
3. Explain the difference between speech and Language.
4. Explain Development of voice.
5. Interdisciplinary nature of speech-language pathology.
6. Classification of consonants.
7. Describe the structure and function of Cerebellum.
8. Different modes of communication.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Name 3 speech disorders.
2. Define language.
3. Describe fricatives.
4. Consanguinity.
5. Neurological basis of speech and language.
6. Causes of language disorders.
7. What are stops?
8. Define – speech, language, voice.
9. Parameters of voice.
10. Qualities of good speech.

**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the different set ups in which a Speech Pathologist can work?
2. Explain Acoustic theory of speech production.
3. Describe the cartilages and intrinsic muscles of larynx.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the components of speech.
2. Respiration for life and speech.
3. Explain the difference between speech and Language.
4. Explain the Development of voice.
5. Interdisciplinary nature of speech-language pathology.
6. Classification of vowels.
7. Explain the muscles of tongue.
8. Different modes of communication.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Name 3 language disorders.
2. Describe – Hypoxia, asphyxia and cyanosis.
3. Periodic and aperiodic sounds.
4. Consanguinity.
5. Suprasegmentals.
6. Function of communication.
7. Speech as an overlaid function.
8. Brodmann area.
9. Explain- vital capacity, tidal volume, residual air.
10. Peripheral nervous system.

**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER I – INTRODUCTION TO HUMAN COMMUNICATION**

*Q.P. Code: 802301*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the various factors that affect speech and language development.
2. Explain the central nervous system and peripheral nervous system.
3. Anatomy and physiology of articulatory system in detail.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Social bases of human communication.
2. Verbal and nonverbal modes of communication.
3. Reflex action and common reflex.
4. Reticular formation and basal ganglia.
5. Progressive waves and sound waves.
6. Interdependency and interrelation between communication, hearing, speech and language.
7. Describe nerve tracts.
8. Components of language.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What is vital capacity?
2. Write about respiratory efficiency test.
3. Harmonics and overtones.
4. Functions of nervous system.
5. What is resonance?
6. What is diaphragm and mention its functions?
7. Hypoxia.
8. Sympathetic vibration.
9. IPA symbols.
10. Receptors and synapse.

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[KZ 0811]

AUGUST 2011

Sub. Code: 2304

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – MANAGEMENT FOR PERSONS WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define digital signal processing and explain its application on hearing aids.
2. Explain different types of group amplification systems with advantages and disadvantages.
3. Describe the advantages and disadvantages of binaural vs. monaural fitting.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Different types of Ear Mould.
2. Artificial ear and artificial mastoid.
3. Tips to facilitate acceptance of hearing aids.
4. Linear and digital integrated circuits.
5. Dynamic Range.
6. Trouble shooting of hearing aids.
7. Receiver and cords.
8. Counseling for geriatric population.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. AVT.
2. Unidirectional microphones.
3. Sound Level Meter.
4. Pseudo binaural hearing.
5. CROS.
6. Batteries used in hearing aids.
7. BAHA.
8. Cued Speech.
9. BTE loops.
10. IR System.

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[LA 0212]

FEBRUARY 2012

Sub. Code: 2304

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – MANAGEMENT FOR PERSONS WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. How do you counsel the geriatric regarding the hearing aid use and maintenance?
2. Discuss the various educational placement for the hearing impaired.
3. Discuss the rationale for early rehabilitation for the child with Hearing impaired.

**II. Write notes on:**

**(8 x 5 = 40)**

1. List the advantages of the in The Canal over Completely in the Canal hearing aids.
2. List the various function of ear mould.
3. How to you counsel the client to maximize the battery life.
4. What are function of damper and venting in the hearing aid output?
5. How do you reduce the reverberation in the class room.
6. Explain and give an examples for the modular and custom made hearing aids.
7. How do you trouble shoot when the hearing aid is not working.
8. How do you modify Johan Tracey program for auditory training?

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Custom hearing aids.
2. EAC.
3. Channel allocation in FM.
4. RCI.
5. John Tracey program.
6. Directional hearing aids.
7. Dual Microphone.
8. Sensitivity period.
9. Stetho clip.
10. Ear mould.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY****FIRST YEAR****PAPER IV – MANAGEMENT FOR PERSONS WITH HEARING IMPAIRMENTS – I***Q.P. Code: 802304***Time : Three Hours****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. Write in detail about various components of a hearing aid.                   | 7 | 20 min. | 10 |
| 2. Elaborate on standard ear impression techniques.                             | 7 | 20 min. | 10 |
| 3. Write about group amplification systems with its advantages and limitations. | 7 | 20 min. | 10 |

**II. Write Notes On:**

- |  |   |         |   |
|--|---|---------|---|
| 1. Write a note on digital tape recording.                   | 4 | 10 min. | 5 |
| 2. Write about Monaural Vs Binaural amplification.           | 4 | 10 min. | 5 |
| 3. How will you troubleshoot a hearing aid?                  | 4 | 10 min. | 5 |
| 4. Elaborate on custom hearing aids.                         | 4 | 10 min. | 5 |
| 5. Write about digital signal processing based hearing aids. | 4 | 10 min. | 5 |
| 6. Discuss about various ear mould modifications.            | 4 | 10 min. | 5 |
| 7. How will you measure different types of sound?            | 4 | 10 min. | 5 |
| 8. Write a note on directional microphone.                   | 4 | 10 min. | 5 |

**III. Short Answers on:**

- |  |   |        |   |
|--|---|--------|---|
| 1. Write about dynamic range.  | 2 | 4 min. | 3 |
| 2. Write a note on push – pull amplifier.                                | 2 | 4 min. | 3 |
| 3. What is direct and alternating current?                               | 2 | 4 min. | 3 |
| 4. Write a note on CROS hearing aids.                                    | 2 | 4 min. | 3 |
| 5. What is a telecoil and list its use.                                  | 2 | 4 min. | 3 |
| 6. What is artificial ear?   | 2 | 4 min. | 3 |
| 7. Write about Helmholtz resonance.                                      | 2 | 4 min. | 3 |
| 8. Why is occlusion effect most noticeable for the “ee” and “oo” vowels? | 2 | 4 min. | 3 |
| 9. Define Sound pressure level.  | 2 | 4 min. | 3 |
| 10. Write briefly about solar charger.                                   | 2 | 4 min. | 3 |

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – MANAGEMENT FOR PERSONS WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail about different types of hearing aids, listing its limitations and advantages.
2. Elaborate on standard ear impression techniques.
3. Write in detail about different varieties of output amplifiers used in hearing aids.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are the medical related contraindications to hearing aid fitting.
2. Write about recording and reproduction of sound.
3. Write a note on integrated sound level meter.
4. List the basic elements of a hearing aid and discuss its functions.
5. Write about solar charger and its specifications.
6. What are the important points that you would concentrate while counseling geriatric population?
7. Write a note on directional microphone.
8. Write about digital signal processing and its implementation.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is direct and alternating current?
2. Write about dynamic range.
3. What is a filter and mention its function?
4. Define sound Pressure Level.
5. Write a note on CROS hearing aids.
6. Why does the occlusion effect occur?
7. Write about Helmholtz resonance.
8. What is a coupler?
9. Draw the block diagram of push pull amplifier and explain in brief.
10. What is a telecoil and list its use?

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS**

**WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What are Digital signal processing and its clinical implications?
2. Describe the types of hearing aids and their advantages and limitations.
3. The importance of counselling for users and parents.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are the basic components of hearing aids?
2. What is a sound level meter?
3. Describe a loudspeaker as a transducer.
4. How will you trouble shoot a hearing aid?
5. What are group amplification systems?
6. What are the types of microphones?
7. What is the procedure of making hard moulds?
8. Write in detail about induction loop system in classrooms.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What are microcomputers?
2. What are the limitations of In The Canal Hearing Aids?
3. What is a transistor? Mention its function.
4. Differentiate AC Vs BC hearing aids.
5. Write the specifications of solar charger.
6. What are non electrical hearing aids?
7. What is a multimeter?
8. What is the importance magnetic tape recording?
9. Differentiate between Hard and Soft moulds.
10. What is the importance of harness?

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS**

**WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Elaborate on standard ear impression techniques.
2. Write in detail about various components of a hearing aid.
3. Write about group amplification systems with its advantages and limitations.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Discuss about various ear mould modifications.
2. Write about Monaural Vs Binaural amplification.
3. Write about digital signal processing based hearing aids.
4. Write a note on digital tape recording.
5. How will you measure different types of sound?
6. Elaborate on custom hearing aids.
7. How will you troubleshoot a hearing aid?
8. Write a note on directional microphone.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Define Sound pressure level.
2. What is direct and alternating current?
3. What is artificial ear?
4. Write a note on CROS hearing aids.
5. What is a telecoil and list its use.
6. Write briefly about solar charger.
7. Write about Helmholtz resonance.
8. Write about dynamic range.
9. Write a note on push – pull amplifier.
10. Why is occlusion effect most noticeable for the “ee” and “oo” vowels?

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS**

**WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Digital Signal Processing and its applications.
2. Working of various types of microphone.
3. What is ear mold? Write its uses and classification with neat diagrams.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are Baffles and Enclosures?
2. How and what would you counsel a parent of a hearing impaired child?
3. Benefits of binaural fitting over monaural hearing aid fitting. Justify.
4. What is Sound Level Meter and list the functions?
5. What are Artificial Ear and Artificial Mastoid?
6. Explain about BAHA.
7. Explain the working of FM system and its advantages and disadvantages.
8. Classify the hearing aids based on the technology used.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is electro magnetic induction?
2. Pseudo binaural vs binaural fitting.
3. What are the various cords used along with the body level aid?
4. Venting and its types.
5. What are Diodes?
6. Explain Ohm's law.
7. What are Dampers and the types?
8. Write about Tweeters and horns.
9. Explain Bias and equalization.
10. Tape speed.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS**

**WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What are the various components in a hearing aid?
2. Group amplification systems used in classroom of a hearing impaired.
3. Classify and explain the ear level hearing aids.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Troubleshooting of hearing aids.
2. What is amplifier and what are the different classes of amplifiers used in hearing aids?
3. Difference between AC and DC.
4. Explain Sampling and Quantization.
5. What is frequency counter and sine wave generator?
6. Steps involved in ear mold impression.
7. Magnetic tape recording.
8. Historical development of hearing aids.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Integrated sound level meter.
2. DC power supply.
3. Various input to hearing aids.
4. Parts of a Microcomputer.
5. What is Automatic Gain Control?
6. Explain Differential amplifier/ amplification.
7. What are the ways to reduce the aliasing error during sampling?
8. What is External and internal delay?
9. Attack time and release time of a hearing aid.
10. Explain about the multispeaker system.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS**

**WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Basic concept of digital signal processing & its implementation in aural rehabilitation.
2. Mention the measuring instruments used in and audiological setup explain elaborately on any four of them.
3. Classify hearing aids according to their types and brief on their advantages and limitations.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Measurement of different types of sound.
2. Parts of hearing aids and their functions.
3. Classroom amplifications devices.
4. Importance of counseling for hearing aids users and parents.
5. Trouble shooting of hearing aids.
6. Solar charger and its specifications.
7. Binaural hearing aids.
8. Counseling regarding maximizing battery life.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Directional hearing aids
2. Types of ear moulds and criteria for selection of one over the other.
3. Two tips to facilitate acceptance of hearing aids.
4. Importance of harness and BTE loops.
5. Name group amplification system.
6. FM hearing aids.
7. Non electrical hearing aids.
8. Artificial mastoid.
9. Frequency counter.
10. Sound level meter.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS  
WITH HEARING IMPAIRMENTS – I**

*Q.P. Code: 802304*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Digital signal processing – how does a DSP based system works, applications on DSP based hearing aids?
2. Hearing aids selections and types of hearing aids.
3. Assessment and counseling in geriatric population.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Monaural VS pseudo binaural hearing aids.
2. Ear moulds and its importance.
3. Non electrical hearing aids.
4. Hearing aid test box and measurement of hearing aids.
5. FM amplifications system.
6. Digital noise reductions.
7. Micro computers and computers.
8. Linear and non linear amplifiers.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. DC power supplier.
2. Voltage stabilizer.
3. Loud speaker efficiency.
4. Structure of a dynamic loudspeaker.
5. Magnetic tape recording and playback.
6. Integrated sound level meter.
7. AC and BC hearing aids.
8. Solar charger and its specifications.
9. Receiver cords.
10. Amplifier power and distortion.

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS WITH  
HEARING IMPAIRMENTS I**

*Q.P. Code: 802304*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

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

1. Digital Signal Processing and its applications.
2. Working of Cathode Ray Oscilloscopes with a neat diagram.
3. Group amplification systems used in classroom of a hearing impaired.

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

1. Troubleshooting of BTE hearing aids.
2. Working of Automatic Gain control circuit.
3. Difference between AC and DC.
4. Explain Sampling and Quantization.
5. What is frequency counter and sine wave generator?
6. Steps involved in ear mold impression.
7. Magnetic tape recording.
8. Historical development of hearing aids.

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

1. Integrated sound level meter.
2. DC power supply.
3. Total Harmonic Distortion (THD).
4. Parts of a coupler.
5. What is Automatic Gain Control?
6. Explain Differential amplifier/amplification.
7. What are the ways to reduce the aliasing error during sampling?
8. Working of telecoil.
9. Compression knee point.
10. Explain about horn speaker.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS WITH HEARING IMPAIRMENTS I**

*Q.P. Code: 802304*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

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

1. Working of various types of microphone.
2. What is ear mold, uses and classification with neat diagrams?
3. Classify and explain the ear level hearing aids.

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

1. Explain the loudspeaker characteristics.
2. How and what would you counsel a parent of a hearing impaired child?
3. Benefits of binaural fitting over monaural hearing aid fitting. Justify.
4. What is Sound Level Meter and list the functions?
5. What are couplers? Explain the different types of couplers with neat diagram.
6. What are the applications of Digital Signal Processing?
7. Explain the working of infrared system and its advantages and disadvantages.
8. Working of Cathode Ray Oscilloscope.

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

1. Pseudobinaural vs binaural fitting.
2. What are the various cords used along with the body level aid.
3. Horning and its types.
4. What are amplifiers? List the types of amplifiers.
5. What is electromagnetic induction?
6. Criteria for BAHA fitting.
7. What are Dampers and the types?
8. Write about multi speaker system.
9. Explain tape noise.
10. Solar charger.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS WITH HEARING IMPAIRMENTS I**

*Q.P. Code: 802304*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Digital signal processing and its applications.
2. Working of Cathode Ray Oscilloscope with a neat diagram.
3. Classify hearing aids according to their types and brief on their advantages and disadvantages.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Magnetic tape recording.
2. Historical development of hearing aids.
3. Discuss about various ear mould modifications.
4. Difference between Alternate and direct current.
5. What are coupler and explain different types of coupler.
6. FM Amplifications system.
7. What are the types of microphone?
8. What is vent? Write about its uses.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What are active and passive components of the circuit with examples?
2. What is multimeter?
3. What are microcomputers?
4. Write note on CROS hearing aids.
5. Pseudo binaural hearing aid.
6. What is transistor and mention its function?
7. Differentiate between hard and soft moulds.
8. What is artificial ear?
9. Parts of the hearing aid.
10. What is Electromagnetic induction?

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**  
**FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS WITH**  
**HEARING IMPAIRMENTS I**

*Q.P. Code: 802304*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

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

1. Differentiate Direct and Alternate current.
2. Elaborate on procedure involved in taking ear impression.
3. Explain different types of group amplification system with advantages and disadvantages.

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

1. Explain sampling and Quantization.
2. Historical development of hearing aids.
3. What is sound level meter? Mention its functions.
4. Microcomputers and computers.
5. Trouble shooting of hearing aids.
6. Artificial Ear and Artificial Mastoid.
7. Write a note on Hearing aid test box.
8. Magnetic tape recording.

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

1. What are diodes?
2. Tape speed.
3. Explain about the Multispeaker system.
4. Importance of Harness and BTE loops.
5. Attack time Vs release Time.
6. Explain about Horn Speaker.
7. Explain Tape Noise.
8. Solar charger
9. What is multimeter?
10. What are the ways to reduce the aliasing error during sampling?

**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR**

**PAPER IV – TECHNOLOGY AND MANAGEMENT FOR PERSONS WITH  
HEARING IMPAIRMENTS I**

*Q.P. Code: 802304*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Digital signal processing and its applications.
2. Explain different types of group amplification system with advantages and disadvantages.
3. Write in detail about various components of hearing aid with neat diagram.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are baffles and enclosures?
2. What are the different types of microphone?
3. What is sound level meter and explain?
4. Steps involved in taking ear impression.
5. Trouble shooting of hearing aids.
6. Explain loudspeaker characteristics.
7. Working of cathode ray oscilloscope with neat diagram.
8. Historical development of hearing aids.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What are the ways to reduce the aliasing error during sampling?
2. Compression knee point.
3. Frequency counter.
4. Attack time and release time of a hearing aid.
5. Write about tweeters and horns.
6. What is diode?
7. What is telecoil in the hearing aids?
8. What is the importance of harness?
9. Custom hearing aids.
10. Write about multispeaker system.

[KZ 0811]

AUGUST 2011

Sub. Code: 2302

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the cognitive theory of language development.
2. Describe the language characteristics of SLI.
3. Compare and contrast various PDD disorders.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Critical period of language development.
2. Hearing loss and language.
3. Milieu teaching.
4. Normal language errors.
5. Formal language assessment.
6. Phonological disorders.
7. Speech acts.
8. Echolalia.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Language development with school exposure.
2. AAC.
3. Sensory issues in CP.
4. Piaget.
5. Pragmatics.
6. ADHD.
7. Respective language and expressive language.
8. Tread of symptoms in autism.
9. Pre language behaviours.
10. Language regression.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail about the speech and language development.
2. Critically evaluate the biological maturation theory.
3. Define and classify Mental retardation. Discuss its causes and characteristics in detail.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are the different types of Morphemes? Explain each with an example.
2. List the speech and language characteristics of a child with hearing impairment.
3. Enumerate the causes that can lead to speech and language delay in a child.
4. Explain the components of language.
5. Delineate the assessment protocol for a child with Specific Language Impairment.
6. List the behavioral characteristics of a child with Attention Deficit Hyperactive Disorder.
7. Information Processing Model.
8. Discuss the management program for a child with multiple disabilities.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Content and function words.
2. Define Cerebral Palsy.
3. Shaping and Chaining.
4. Landau – Kleffner Syndrome.
5. Expand and explain: REELS.
6. Developmental Dyslexia.
7. Traumatic Brain Injury.
8. Multilingualism.
9. Communication intent.
10. Mean Length of Utterance.

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY****FIRST YEAR****PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS***Q.P. Code: 802302***Time : Three Hours****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>
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- |   |   |         |    |
|---|---|---------|----|
| 1. Describe Models of Language Acquisition.                                     | 7 | 20 min. | 10 |
| 2. Define Cerebral Palsy. Write Aetiology and Classification of Cerebral palsy. | 7 | 20 min. | 10 |
| 3. Define Specific Language Impairment and Write the language assessment.       | 7 | 20 min. | 10 |

**II. Write notes on:**

- |  |   |         |   |
|--|---|---------|---|
| 1. Difference between speech and language disorder.                | 4 | 10 min. | 5 |
| 2. Difference between Competence and Performance.                  | 4 | 10 min. | 5 |
| 3. Relationship between Specific Language impairment and Dyslexia. | 4 | 10 min. | 5 |
| 4. Pragmatic behavior of Attention Deficit Disorder.               | 4 | 10 min. | 5 |
| 5. M-Chart.  | 4 | 10 min. | 5 |
| 6. Critical period for language development.                       | 4 | 10 min. | 5 |
| 7. Types of Hearing loss.  | 4 | 10 min. | 5 |
| 8. Bilingual Language learning at home and school.                 | 4 | 10 min. | 5 |

**III. Short Answers on:**

- |   |   |        |   |
|---|---|--------|---|
| 1. Multilingualism.                           | 2 | 4 min. | 3 |
| 2. Syntax.                                    | 2 | 4 min. | 3 |
| 3. Aetiology of Acquired Aphasia in children. | 2 | 4 min. | 3 |
| 4. Types of Learning Disability.              | 2 | 4 min. | 3 |
| 5. Antonyms.                                  | 2 | 4 min. | 3 |
| 6. Name the Disorder of Voice.                | 2 | 4 min. | 3 |
| 7. Classification of Speech Disorder.         | 2 | 4 min. | 3 |
| 8. Define Mental Retardation.                 | 2 | 4 min. | 3 |
| 9. Define Aphasia.                            | 2 | 4 min. | 3 |
| 10. Name the component of speech.             | 2 | 4 min. | 3 |

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Discuss the cognitive basis of speech.
2. Describe models of language acquisition.
3. Define Attention Deficit Disorder. Write in detail assessment procedure and differential diagnosis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Causes of cerebral palsy.
2. How are the errors classified in misarticulation ?
3. List the characteristic of normal voice.
4. Alternative Augmentative communication.
5. Difference between Bilingual and Multi lingual.
6. Discuss speech as an overlaid function.
7. Difference between screening test and Diagnostic test.
8. M.Chart.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Define phonology.
2. Canonical babbling.
3. What are the causes of stuttering ?
4. Define Mental Retardation.
5. Difference between dysarthria and dyslalia.
6. Classification of cerebral palsy.
7. Define Attention Deficit Hyperactive Disorder.
8. Define Critical Period of Language development.
9. Write process of word formation.
10. Define Language.

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the development of language in pre-school children.
2. Critically evaluate nativistic theory and behavioural theory of language acquisition.
3. Explain word formation processes.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are the characteristics of Cerebral palsy?
2. Differentiate Rett syndrome & Asperger's syndrome.
3. What are the characteristics of learning disability?
4. What are the different types of hearing loss? Discuss the causes of each type.
5. Write briefly about any two test tools to assess language.
6. What are the speech & language, cognitive and behavioural impairments in patients with traumatic brain injury?
7. Write a note on the characteristics of acquired childhood aphasia.
8. Mention the speech and language characteristics of children with specific language impairment.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is a syllable and describe its structure?
2. Draw vowel Chart.
3. Differentiate reference & inference.
4. What are the three major aspects of language given by Bloom & Lahey (1978)?
5. Differentiate morphs & allomorphs.
6. What is derivation?
7. What are prototypes?
8. Write a short note on M-CHAT.
9. Differentiate Hyponymy & Metonymy.
10. Differentiate Expansion & Extension.

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the development of speech and language in children.
2. Define any two language disorders. Explain its causes and characteristics.
3. Critically evaluate cognitive theory & social interaction theory of language acquisition.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What is Landau kleffner syndrome? Mention the characteristics.
2. Milieu teaching.
3. What are the characteristics of learning disability?
4. Describe the speech and language characteristics of children with specific language impairment.
5. Mention the types of free morphemes and bound morphemes.
6. Describe verbal behaviour approach.
7. Define Traumatic brain injury. What are the types of head injuries?
8. Explain Critical period of language development.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Draw vowel chart.
2. Explain self talk and parallel talk.
3. Explain Scale for early communication skills (SECS).
4. Write the place, manner & voicing characteristics of the phonemes /dz/, / w/ & /r/.
5. What is coinage?
6. Write a short note on speech acts.
7. Name the disorders of Autism spectrum.
8. What are the types of Attention Deficit Hyperactivity Disorder?
9. Differentiate Homonyms & Hyponymy.
10. Define language & mention its components.

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**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain any two language acquisition theories with its primary assumptions, strengths and weaknesses.
2. Explain word formation processes.
3. Define mental retardation and hearing impairment. Explain its causes & characteristics.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain any 5 language intervention techniques.
2. What are the characteristics of Autism spectrum disorders?
3. Explain simultaneous and sequential acquisition of second language in bilingual children.
4. What are the causes of conductive and sensory neural hearing loss?
5. What is Landau kleffner syndrome and mention its characteristics?
6. Classify mental retardation based on intelligent quotient.
7. Classify cerebral palsy based on the neurological symptoms. Explain the characteristics of each.
8. Write a short note on CARS.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is babbling and mention the types?
2. Differentiate phones and allophones.
3. What are diphthongs?
4. Write Goodman's classification of hearing loss.
5. What are the types of Attention Deficit Hyperactivity Disorder?
6. Differentiate Homophones and homonyms.
7. Draw Consonant chart.
8. Differentiate blending and clipping.
9. Write a short note on PECS.
10. What are affixes?

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define language acquisition. Critically evaluate the theories of language acquisition.
2. What is Specific Language Impairment? Describe its etiology and characteristics.
3. Describe in detail the role of SLP in the management of children with Language Learning Disability.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write a short note on Morphology.
2. Illustrate and label the information processing model.
3. Describe Bilingualism in Tamil speaking children.
4. What are the Language characteristics in children with Seizure disorders?
5. What are the Challenges in the assessment of children with multiple disability?
6. Describe the management of Attention deficit Hyperactivity Disorder.
7. What are the speech characteristics in Hearing Impaired?
8. Describe the procedure of Language Sampling.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Define pragmatics. Name 2 pragmatic skills.
2. Differentiate between the terms “speech” and “language”.
3. Name three syntactic categories.
4. Describe three activities to evaluate the communication intent.
5. Name three Indian language test materials.
6. Name three possible etiologies for developing acquired childhood aphasia in childhood.
7. Name three non verbal pragmatic skills.
8. Differentiate between content and function words.
9. Describe with example the term semantic contiguity.
10. Name three characteristics of Landau Kleffner syndrome.

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define language acquisition. Critically evaluate the Pragmatic theory of language acquisition.
2. What is Morphology? Describe its role in speech and language development.
3. Describe in detail the role of SLP in the management of children with Hearing Impairment.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Write a note on Syntax.
2. Illustrate and label the speech chain.
3. Multilingualism in Indian children.
4. What are the Language characteristics in children with Learning disability?
5. Name the challenges in the assessment of children with Autism Spectrum Disorders.
6. Assessment of pragmatics in Attention deficit Hyperactivity Disorder.
7. What are the speech characteristics in children with Down syndrome?
8. Explain Brown's method of calculating Mean Length of Utterance.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Define semantics. Name 2 semantic skills.
2. Differentiate between the terms "semantic anomaly" and "semantic contiguity".
3. Name three phonological processes observed in 2 year old children.
4. Describe three activities to evaluate the stimulability for therapy.
5. Name three test materials to evaluate pragmatic skills in children.
6. Name three possible etiologies for developing cleft lip and palate.
7. Name three verbal pragmatic skills.
8. Differentiate between homonyms and antonyms.
9. Describe with example the term paradigmatic relation.
10. Name three characteristics of children with Traumatic Brain Injury.

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Specific Language Impairment with assessment procedures and differential diagnosis.
2. Stages of speech and language development.
3. Cognitive theory of language development.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Augmentative Alternative Communication.
2. Critical period for speech and language development.
3. Causes of Delayed Speech and Language.
4. Phonological Disorders.
5. Screening Vs Diagnostics tests.
6. Childhood acquired aphasia.
7. Seizure disorders.
8. Multiple Disabilities.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Bilingualism.
2. Define Phonology.
3. Prelinguistic behaviors.
4. M CHAT.
5. Down Syndrome.
6. Shaping.
7. Antonyms.
8. Genetic issues in language development.
9. Lesson plan.
10. Pragmatics.

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define and classify different types of cerebral palsy with causes and characteristics.
2. Biological and information processing model of language acquisition.
3. Development of phonology and morphology.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Grammatical and syntactic categories in language.
2. Causes of hearing loss.
3. Characteristics of learning disability.
4. Verbal vs. Non verbal communication.
5. Classification of Mental Retardation.
6. Importance of case history.
7. Two tests to assess language development in children.
8. Effect of bilingual language learning context at home and school.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Modelling.
2. Traumatic Brain Injury.
3. Symptoms of Autism.
4. Bound Morpheme.
5. Synonyms.
6. Communication intent.
7. ADHD.
8. Multilingualism.
9. Components of speech.
10. Variegated babbling.

[LL 0817]

AUGUST 2017

Sub. Code :2302

**B.Sc. AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY**

**FIRST YEAR**

**PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Language acquisition. Critically evaluate the theories of language acquisition.
2. The speech and language characteristics of SLI and ASD.
3. Developmental issues in communicative development.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Components of language.
2. Formal and informal language assessment.
3. Different types of Morphemes. State with example.
4. Multilingualism in children.
5. Bilingual Language learning at home and school.
6. Speech Sound Disorder.
7. Screening test Vs Diagnostic test.
8. Any five language intervention techniques.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Homonyms, Synonyms and Antonyms.
2. Language expansion vs language extension.
3. Receptive and Expressive language.
4. Language stimulation techniques. Explain.
5. Communication temptation vs communication intent.
6. Language age, mental age and chronological age.
7. Mean Length of Utterance.
8. Canonical babbling.
9. Critical Period of Language development.
10. Verbal and non-verbal communication.

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**BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY  
FIRST YEAR  
PAPER II – SPEECH LANGUAGE DEVELOPMENT AND DISORDERS**

*Q.P. Code: 802302*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. The speech and language development stages.
2. a) Bilingual Language learning contexts at home and school situations.  
b) Multilingualism in children.
3. Specific Language Impairment: Define and discuss its causes-characteristics in detail.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Critical period of language development.
2. Informal language assessment.
3. Different types of Morphemes. Explain each with an example.
4. The components of language. Explain.
5. List the characteristics of a child with Attention Deficit Hyperactive Disorder.
6. Information Processing Model.
7. Speech disorder and language disorder. Differentiate.
8. Landau- kleffner syndrome. Mention the characteristics.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Speech as an overlaid function. Discuss.
2. Sensory motor integration.
3. Language age, mental age and chronological age.
4. Prelinguistic skills.
5. Language regression.
6. Content and function words.
7. Mean Length of Utterance. Development stages.
8. Component of speech.
9. Hyponymy and Metonymy. Differentiate.
10. Self talk and parallel talk.