Unit – V

9. Describe the various modes of service delivery and explain how these models can be adapted to promote academic, linguistic and social participation of children with learning disabilities in inclusive school settings. **14**

OR

10. Discuss on different Acts, regulations and policies relevant to education and children with special needs in India. **14**

Reg. No. | | | | | | | | | | | | |

SLPS 106

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme) (2020–22 Batch Onwards)
LANGUAGE AND LITERACY DISORDERS

Time : 3 Hours Max. Marks : 70

Unit – I

1. Discuss in detail role of oral language in acquisition of literacy. **14**

   OR

2. Discuss in detail the stages of reading and writing development. **14**

Unit – II

3. Discuss the genetics of literacy disorders. **14**

   OR

4. Discuss the linguistic characteristics of students with reading/language/learning disabilities. **14**

Unit – III

5. Discuss in detail on NIMHANS battery, Dyslexia Assessment for Languages in India. **14**

   OR

6. Compare and contrast between language sampling, portfolio, dynamic assessment used in children with learning disability. **14**

Unit – IV

7. Discuss the intervention approaches to promote emergent literacy skills. **14**

   OR

8. Discuss the intervention approaches to promote development of reading comprehension. **14**

P.T.O.

Unit – V

9. Describe the various modes of service delivery and explain how these models can be adapted to promote academic, linguistic and social participation of children with learning disabilities in inclusive school settings. **14**

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AH 101

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
RESEARCH METHODS, STATISTICS AND EPIDEMIOLOGY

Time : 3 Hours Max. Marks : 70

UNIT – 1

1. Write a note on and group designs in research. **14**

OR

2. What are the principles of ethics in research as per the ICMR guidelines. **14**

UNIT – 2

3. Write a short note on :
   a) Case-control study. **7**
   b) Clinical trials. **7**

OR

4. Describe the application of epidemiology in screening procedures employed in Audiology. **14**

UNIT – 3

5. a) Differentiate between parametric and non-parametric statistical tests with suitable examples. **7**
   b) Write a short note on types of hypothesis and types of errors in testing hypothesis. **7**

OR

P.T.O.

6. a) Test the significant association between gender and smoking (Table value = 3.84). 7

		Smoking	
		Yes	No
Gender	Female	5	30
	Male	20	10

b) Write a short note on Kappa coefficient. 7

UNIT – 4

7. Write short notes on ANOVA, ANCOVA and MANOVA. 14

OR

8. Write short notes on principal component analysis, factor analysis and discriminant function. 14

UNIT – 5

9. Write a note on :

a) Level of evidence in a Quasi experimental study. 7

b) Diagnostic odds ratio. 7

OR

10. Explain the steps involved in systematic review and meta-analysis. 14

Reg. No. | | | | | | | | | | | | |

AH 101

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
RESEARCH METHODS, STATISTICS AND EPIDEMIOLOGY

Time : 3 Hours Max. Marks : 70

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AH 101

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
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(Semester Scheme) (2020 – 22 Batch Onwards)
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OR

8. Write short notes on principal component analysis, factor analysis and discriminant function. **14**

UNIT – 5

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a) Level of evidence in a Quasi experimental study. **7**

b) Diagnostic odds ratio. **7**

OR

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Reg. No. | | | | | | | | | | | | |

AH 102

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme 2020 – 22 Batch Onwards)
COCHLEAR PHYSIOLOGY

Time : 3 Hours Max. Marks : 70

UNIT – I

1. Describe the structures of the organ of Corti in detail. **14**

OR

2. a) Write a note on the blood supply of cochlea. **6**

   b) Explain the homeostatic mechanisms in cochlea. **8**

UNIT – II

3. Describe the outer hair cell physiology. **14**

OR

4. Describe the technique to study Basilar membrane physiology. **14**

UNIT – III

5. Discuss the role of micronutrients in cochlear physiology. **14**

OR

6. a) Write a note on the developmental changes in cochlea. **7**

   b) Write a note on the non-mammalian cochlea. **7**

P.T.O.

UNIT – IV

7. Explain the contralateral suppression of DPOAEs. **14**

OR

8. Explain the instrumentation and techniques for recording different types of OAEs. **14**

UNIT – V

9. Explain the different techniques of recording electrocochleography. **14**

OR

10. a) Explain the generation of endocochlear potentials. **8**

    b) List the clinical applications of electrocochleography. **6**

Reg. No. | | | | | | | | | | | | |

AH 102

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme 2020 – 22 Batch Onwards)
COCHLEAR PHYSIOLOGY

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Reg. No. | | | | | | | | | | | | |

AH 103

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
HEARING SCIENCE

Time : 3 Hours Max. Marks : 70

UNIT – I

1. Explain different measures to analyse sound waves. **14**

OR

2. Discuss the classical methods in psycho-physical threshold estimation. **14**

UNIT – II

3. Explain the factors affecting loudness. **14**

OR

4. a) Explain the concepts of dynamic range of hearing, equal loudness contours and loudness scaling. **8**
   b) Discuss the consequences of altered loudness perception. **6**

UNIT – III

5. Explain the factors affecting pitch perception. **14**

OR

6. Compare the perception of pure-tones by persons with normal hearing and those with hearing impairment. **14**

UNIT – IV

7. Critically evaluate the critical band concept and power spectrum model. **14**

OR

8. Explain the auditory filter shapes in normal hearing and hearing impaired. **14**

UNIT – V

9. a) Explain the effect of hearing loss on non-peripheral masking. **7**
   b) Explain the psycho-physical overshoot phenomena. **7**

OR

10. Explain the concept of informational masking and compare the effect of central and peripheral loss on the same. **14**

Reg. No. | | | | | | | | | | | | |

AS 104

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme) (2020-22 Batch Onwards)
AUDITORY DISORDERS

Time : 3 Hours Max. Marks : 70

UNIT – I

1. Explain the congenital malformations of external and middle ear. **14**

OR

2. Brief about : **(8+6)**
   a) Otosclerosis and its audiological findings.
   b) Multicomponent tympanometry.

UNIT – II

3. Elaborate on the pathophysiology of Meniere's disease. Comment on the audiological findings in Meniere's disease. **14**

OR

4. Write short notes on : **(8+6)**
   a) Pathophysiology of ototoxicity.
   b) Pathophysiology of sudden sensorineural hearing loss.

UNIT – III

5. Explain in detail about : **(8+6)**
   a) Noise-induced hearing loss (NIHL) and its pathophysiology.
   b) Audiological profile in traumatic injuries.

OR

6. Describe on : **(7+7)**
   a) Audiological profile in persons with NIHL
   b) International guidelines for hearing conservation

P.T.O.

UNIT – IV

7. Explain in brief about : **(8+6)**
   a) Pathophysiology of space-occupying lesions of auditory nerve.
   b) Audiological profile in persons with space occupying lesions of brainstem.

OR

8. Write a short note on : **(7+7)**
   a) Management options for space occupying lesions.
   b) Challenges in the diagnosis of space occupying lesions.

UNIT – V

9. Elaborate on the pathophysiology and audiological findings in ANSD. **14**

OR

10. Briefly explain : **(6+8)**
    a) Etiology of ANSD.
    b) Management strategies for ANSD.

Reg. No. | | | | | | | | | | | | |

AS 104

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme) (2020-22 Batch Onwards)
AUDITORY DISORDERS

Time : 3 Hours Max. Marks : 70

UNIT – I

1. Explain the congenital malformations of external and middle ear. **14**

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   a) Noise-induced hearing loss (NIHL) and its pathophysiology.
   b) Audiological profile in traumatic injuries.

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   a) Audiological profile in persons with NIHL
   b) International guidelines for hearing conservation

P.T.O.

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   a) Pathophysiology of space-occupying lesions of auditory nerve.
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SLPH 101

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
RESEARCH METHODS, STATISTICS AND EPIDEMIOLOGY

Time : 3 Hours Max. Marks : 70

UNIT – 1

1. Write a note on and group designs in research. **14**

OR

2. What are the principles of ethics in research as per the ICMR guidelines ? **14**

UNIT – 2

3. Write a short note on :
   a) Case-Control Study. **7**
   b) Clinical Trials. **7**

OR

4. Describe the application of epidemiology in screening procedures employed in Speech Language Pathology. **14**

UNIT – 3

5. a) Differentiate between parametric and non-parametric statistical tests with suitable examples. **7**
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OR

6. a) Test the significant association between gender and smoking (Table value = 3.84). **7**

		Smoking	
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Gender	Female	5	30
	Male	20	10

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P.T.O.

UNIT – 4

7. Write short notes on ANOVA, ANCOVA and MANOVA. **14**

OR

8. Write short notes on principal component analysis, factor analysis and discriminant function. **14**

UNIT – 5

9. Write a note on :

   a) Level of evidence in a Quasi experimental study. **7**

   b) Diagnostic odds ratio. **7**

OR

10. Explain the steps involved in Systematic review and meta-analysis. **14**

Reg. No. | | | | | | | | | | | | |

SLPH 101

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
RESEARCH METHODS, STATISTICS AND EPIDEMIOLOGY

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SLPH 101

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
RESEARCH METHODS, STATISTICS AND EPIDEMIOLOGY

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   b) Diagnostic odds ratio. **7**

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AS 106

I Semester M.Sc. (Audiology) Degree Examination, January 2026
(Semester Scheme) (2020 – 22 Batch Onwards)
TECHNOLOGY IN AUDIOLOGY

Time : 3 Hours Max. Marks : 70

UNIT – I

1. a) Explain the principles and methods of digital signal processing. **8**
   b) Compare and contrast AM and FM transmission systems. **6**

OR

2. Describe the process of digitization and its application in audiology. **14**

UNIT – II

3. a) Compare linear predictive coding and Fourier-based speech analysis methods. **10**
   b) Explain speech recognition systems and their applications in audiology. **4**

OR

4. Discuss the role of artificial neural networks in speech signal processing. **14**

UNIT – III

5. a) Explain the working principle and applications of fMRI in auditory research. **6**
   b) Describe PET and SPECT and their audiological significance. **8**

OR

6. a) Compare MRI and MEG in terms of temporal and spatial resolution. **7**
   b) Write a note on the application of Neuro Imaging in Auditory research and diagnosis. **7**

P.T.O.

UNIT – IV

7. a) Define tele-technology and its application in audiology. **6**

   b) Describe technologies involved in remote consultations and databases. **8**

OR

8. Discuss the technological requirements for tele-audiology systems. **14**

UNIT – V

9. a) Describe the features in the user interface of MATLAB and Highlight the applications of MATLAB in Auditory Sciences. **8**

   b) Explain features and applications of PRAAT in speech analysis. **6**

OR

10. a) Write short notes on calibration and maintenance of electrophysiology equipment. **8**

    b) Discuss the role of computer-based intervention programs in audiology. **6**

Reg. No. | | | | | | | | | | | | |

SLPH 102

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme 2020-22 Batch Onwards)
NEUROBIOLOGY OF SPEECH LANGUAGE AND COGNITION

Time : 3 Hours | Max. Marks : 70

Unit – 1

1. a) Discuss the signal propagation in the nervous system, add a note on ion channels. **8**
   b) Write a note on Basal Ganglia and Cerebellum in motor control. **6**

OR

2. Explain the role of the subcortex for speech-language processing. **14**

Unit – 2

3. Explain any two neuro-physiological procedures that are used to study the language system. Highlight on its merits and demerits. **14**

OR

4. a) Describe the significance of routine clinical neurological examination. **8**
   b) Explain Priming and its variants to study linguistic processing. **6**

Unit – 3

5. With the help any two models explain the role of attention and memory in the development of speech and language. **14**

OR

6. Write a note on models of attention and suggest the possible modifications that can be inculcated in these models for better understanding. **14**

P.T.O.

Unit – 4

7. How are the mechanisms for Spoken Word Recognition (SWR) different from Visual Word Recognition (VWR) ? Explain with suitable models. **14**

OR

8. Write a detailed note on the neural basis of sound, syllable, word and sentence production. **14**

Unit – 5

9. Outline the structural and microscopic changes in brain that occur with ageing. **14**

OR

10. Describe the effect of aging on various speech and language behaviours. Justify your statement with research evidence. **14**

Reg. No. | | | | | | | | | | | | |

SLPH 102

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme 2020-22 Batch Onwards)
NEUROBIOLOGY OF SPEECH LANGUAGE AND COGNITION

Time : 3 Hours | Max. Marks : 70

Unit – 1

1. a) Discuss the signal propagation in the nervous system, add a note on ion channels. **8**
   b) Write a note on Basal Ganglia and Cerebellum in motor control. **6**

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SLPH 103

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme 2020 – 22 Batch Onwards)
SPEECH SCIENCE AND SPEECH PRODUCTION

Time : 3 Hours Max. Marks : 70

UNIT – 1

1. How is speech breathing different from regular breathing ? Discuss the factors that influence speech breathing. **14**

OR

2. Discuss the importance of various constrictors in the vocal tract. How do they influence the aerodynamics of speech ? **14**

UNIT – 2

3. Write a brief essay on the source filter theory. Critically evaluate the same. **14**

OR

4. a) Critically differentiate singing and speech production. **7**
   b) Briefly discuss the different aspects of prosody and their realizations. **7**

UNIT – 3

5. Describe the working principle, procedure, need and applications of the following instruments in understanding speech production.
   a) EMMA. **7**
   b) Stroboscope. **7**

OR

6. What is a spectrogram and its types ? What are the important features of a spectrogram used for the identification of various groups of phonemes ? **14**

P.T.O.

UNIT – 4

7. Discuss the acoustic characteristics of the following :
   a) Vowels **7**
   b) Nasal consonants. **7**

OR

8. Discuss the aerodynamic characteristics of the following :
   a) Plosives **7**
   b) Fricatives. **7**

UNIT – 5

9. Discuss the significance and applications of forensic acoustic analysis, substantiated with relevant research evidence. **14**

OR

10. Discuss the procedure and clinical applications of infant cry analysis, supported by relevant research evidence. **14**

Reg. No. | | | | | | | | | | | | |

SLPS 104

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme 2020-22 Batch Onwards)
CLINICAL LINGUISTICS AND MULTILINGUAL ISSUES

Time : 3 Hours Max. Marks : 70

UNIT – I

1. Define General Linguistics and outline its major branches. Explain how the principles of linguistics support the diagnosis and management of communication disorders. **14**

OR

2. Describe the typical phonological acquisition in children and discuss the nature and types of phonological disorders seen in clinical populations. **14**

UNIT – II

3. Explain the following with suitable examples :
   a) Discourse comprehension. **7**
   b) Language variation and dialects. **7**

OR

4. Discuss pragmatic development in children and highlight how discourse or narrative analysis can be used for assessment in clinical practice. **14**

UNIT – III

5. Discuss psycholinguistic models of language production and comprehension, with reference to their application in language pathology. **14**

OR

6. Explain the major issues in bilingual and multilingual language acquisition and describe their implications for assessment and intervention. **14**

P.T.O.

UNIT – IV

7. What are the lateralization and specialization of language functions ? Explain the contribution of the left and right hemispheres in language processing with research evidence. **14**

OR

8. Discuss the mechanisms involved in spoken and visual word recognition and the neural bases of sentence and discourse processing. **14**

UNIT – V

9. Describe the relationship between language and culture and explain how linguistic determinism and linguistic relativity are reflected in communication. **14**

OR

10. a) Discuss verbal and non-verbal cultural differences affecting communication across Indian communities. **7**

    b) Explain the concept of language maintenance, shift and death with examples from multilingual contexts. **7**

Reg. No. | | | | | | | | | | | | |

SLPS 104

I Semester M.Sc. (Speech Language Pathology) Degree Examination, January 2026
(Semester Scheme 2020-22 Batch Onwards)
CLINICAL LINGUISTICS AND MULTILINGUAL ISSUES

Time : 3 Hours Max. Marks : 70

UNIT – I

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3. Explain the following with suitable examples :
   a) Discourse comprehension. **7**
   b) Language variation and dialects. **7**

OR

4. Discuss pragmatic development in children and highlight how discourse or narrative analysis can be used for assessment in clinical practice. **14**

UNIT – III

5. Discuss psycholinguistic models of language production and comprehension, with reference to their application in language pathology. **14**

OR

6. Explain the major issues in bilingual and multilingual language acquisition and describe their implications for assessment and intervention. **14**

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UNIT – IV

7. What are the lateralization and specialization of language functions ? Explain the contribution of the left and right hemispheres in language processing with research evidence. **14**

OR

8. Discuss the mechanisms involved in spoken and visual word recognition and the neural bases of sentence and discourse processing. **14**

UNIT – V

9. Describe the relationship between language and culture and explain how linguistic determinism and linguistic relativity are reflected in communication. **14**

OR

10. a) Discuss verbal and non-verbal cultural differences affecting communication across Indian communities. **7**

    b) Explain the concept of language maintenance, shift and death with examples from multilingual contexts. **7**
