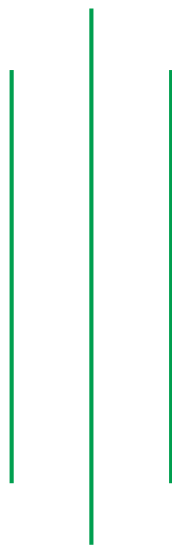


Syllabus for Licensing Examination of Master of Audiology & Speech Language Pathology 2021



Nepal Health Professional Council
Bansbari, Kathmandu

Table of Contant

S.N.	Topic	Marks
1.	Audiology A. Foundation B. Audiological test battery (Behavioral & physiologic) C. Hearing aids, Implantable Devices and Assistive Devices D. Disorders of Auditory system E. Audiological setup F. Aural Rehabilitation	40%
2.	Speech & Language Pathology A. Foundations B. Normal development & models of phonological development of Articulation & Phonology. C. Neuroanatomy & Neurophysiology of larynx. Voice disorders in children and adults. D. Neuro E. Adult motor speech disorders F. Childhood Communication Disorder G. Aphasia H. Communication, Language and Speech Intervention	40%
3.	Legal & Ethical Practice and Advocacy A. Epidemiology & Prevention of Speech, Language & Hearing Disorders	10%
4.	Allied Subjects (Linguistics, Research Methodology, Biostatistics & Medical writing) A. Linguistics B. Research Methodology, Biostatistics & Medical writings	10%

1. Audiology

- A. Foundation:** Acoustics of sound, Sound measurements, dB concept and Binaural hearing, Psychoacoustic principles, methods & applications. Tuning fork test, Hearing loss- causes, types, classification, degree, pattern of hearing loss, neo-natal screening, need of early identification, Development of auditory system, auditory behaviors at different age, High risk register, Genetics & Associated syndromes related to hearing and balance.
- B. Audiological test battery (Behavioral & physiologic):** Administering & Interpreting- Pure-tone air and bone conduction testing, Play audiometry, Speech audiometry, Immitance audiometry, Electrophysiological test, Vestibular test, Site of lesion test, Tests for Functional Hearing Loss.
Concept of masking, Factors affecting Hearing Evaluation, Formal and Informal Testing, Use of different stimuli in Hearing test, Types of Audiograms.
- C. Hearing aids, Implantable Devices and Assistive Devices:** Classification/Types, Electro-acoustic Measurement, Selection/candidacy, Programming, Ear-mold.
Recent trends and advancements.
- D. Disorders of Auditory system:** Outer ear/ Middle ear /Inner ear disorders, Pseudo-hypoacusis, ANSD, CAPD, Tinnitus, Vestibular, Assessment& Management.
Recent trends in assessment & management
- E. Audiological setup:** sound treated room, equipment used, Calibration, repair and maintenance, international standards for audiometric setup, instrument and testing.
- F. Aural Rehabilitation:** need/ goals, approaches in aural rehabilitation, effect of hearing loss, integration and educational placement. Auditory training & its method, speech reading. Classroom amplification devices, adults & geriatrics rehabilitation, home training and counseling-meaning, scope, principles, types in context of hearing impairment
Recent and evidence-based trends in aural rehabilitation

2. Speech and Language Pathology

- A. Foundations:** Physiology of speech production- Respiratory, Laryngeal, Articulatory & Resonatory system. Theories & models of speech production, Theories of language acquisition & its application, Neuro-anatomical & neuro-physiological co-relates of speech and language.
- B. Normal development & models of phonological development of Articulation & Phonology.**
Articulation & Phonological disorder- assessment procedures & management approaches.
Assessment and management approaches for Cleft lip & palate and Glossectomy.
- C. Neuroanatomy & Neurophysiology of larynx. Voice disorders in children and adults:** clinical features, differential diagnosis.
Assessment and management approaches, and counseling. Laryngectomy: assessment and management approaches.
Recent advances in voice therapy including instrumentalist.

D. Neuro: physiological & Neuropsychological bases of normal fluency. Differential diagnosis of fluency disorders.

Assessment and management in adult and children.

Recent advances in Management

E. Adult motor speech disorders: Dysarthria and Apraxia- Definition, etiology, clinical features, differential diagnosis.

Childhood Motor Speech Disorders: Cerebral Palsy, Dysarthria, Apraxia- Definition, etiology, classification, clinical features,

Normal swallowing & Dysphagia in Adult and Children.

Assessment and Management Approaches.

Recent trends and advancement.

F. Childhood Communication Disorder: Definitions, etiology, classification and characteristics of communication disorders in children with Hearing Impairment, Intellectual disability, Autism Spectrum Disorder, ADD and ADHD, SLI and LLD, Learning disability, Acquired Childhood Aphasia, Multiple impairments.

Assessment and Management Approaches.

Recent trends and advancement.

G. Aphasia: Definition, etiology, classification. Other Neuro-communication disorders: Definition, causes, types/classification, Assessment and Treatment- RHD, Dementia, Primary Progressive Aphasia, Sub-cortical Aphasia, TBI.

Assessment and Management Approaches.

Recent advancement in Assessment and Communication.

H. Communication, Language and Speech Intervention: General intervention approaches and principles. Specific intervention techniques, AAC, Role of parents, caregivers and family and team approach. Counseling- meaning, scope, principles, types in context of speech & language impairments

3. Legal & Ethical Practice and Advocacy

A. Epidemiology & Prevention of Speech, Language & Hearing Disorders.

Statistics of Speech & Hearing disorders in Nepal.

Code of Ethics, Legislative support for rehabilitation- prepare policy, disability act.

Duties & Responsibilities of an ASLP in various settings.

Standards for professional conduct.

Advocate for appropriate services.

Documentation and communication

4. Allied subjects: Linguistics, Research Methodology, Biostatistics & Medical writings.

A. Linguistics

Fundamentals of Linguistics, Scope of clinical linguistics, nature of language, communication, phonetics, phonology and Classification of speech sounds: Segmentals and suprasegmentals. Phonetics and Fundamentals of acoustic phonetics, IPA chart- Transcription, identification, reproduction.

B. Research Methodology, Biostatistics & Medical writings

Research Methodology

Research Definition, Topic Selection, Objective Formulation, Work Plan, Literature review.

Epidemiology: Study designs, Bias and its types, Sampling types, Disease frequency measurement (Rate, Ratio, Proportion, Prevalence, Incidence), Screening test (Sensitivity, Specificity, Positive Predictive Value, Negative Predictive Value)

Biostatistics

Data types, Measures of Central Tendency (Mean, Median, Mode), Measures of Dispersion (Range, Percentiles, Standard Deviation)

Variables (Dependent, Independent, Confounding), Hypothesis, Errors (Alpha, Beta), Significance Test (Chi Square test, t-Test, ANOVA)

Medical Writing

Common types (Book Review, Case Reports, Conference Reports, Dissertation, Editorials, Letter to The Editors, Original Articles, Review Articles, Synopsis of Dissertation)

Components of Writing Scientific Articles:

Author and Authorship, Title, Introduction, Methods, Results, Discussions, Conclusions and Abstract