

31901/31951



MK-1888

Sl.No. 0111

Total No. of Pages : 2

I Semester M.Sc. Examination, March - 2024

(Scheme: CBCS)

Audiology/Speech-Language Pathology

Research Methods and Statistics in Speech-Language & Hearing

Time : 2 Hours

Max. Marks : 50

Instruction: Answer all questions.

I. 1) Explain any two types of descriptive research applicable to the field of speech and hearing. [10]

OR

2) What do you mean by observational research? Discuss the methods of observation used in speech and hearing research. [10]

II. 3) Write short notes on : [15]

a) Mixed designs

b) Internal validity

c) True experimental design.

OR

4) Write short notes on : [15]

a) Within - subject designs

b) External validity

c) Ethical considerations in research.

P.T.O.

- III. 5) a) With suitable examples, explain the application & procedure for paired t - test. [5]
- b) Discuss the variants from normal distribution. [5]
- c) Briefly explain any two techniques of multivariate data analysis. [5]

OR

- 6) a) Explain the procedure for testing of hypothesis. [5]
- b) Test the significance using ANOVA. [10]

X	6	8	7	5	6	9
Y	5	4	6	8	7	7
Z	8	7	5	9	7	4

- IV. 7) a) Explain how sign test is used to test the significance between pre and post scores in a data set. [6]
- b) Explain the limitations of parametric and non parametric tests. [4]

OR

- 8) a) Which non-parametric test would you use to test the significance of difference between the scores of children with normal hearing and children with hearing impairment? Explain the procedure. [7]
- b) What are the consequences of failure of assumptions underlying parametric tests? [3]



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Sl. No. 0042

Total No. of Pages : 2

I Semester M.Sc. (SLP) Examination, March - 2024

(Scheme : CBCS)

SPEECH-LANGUAGE PATHOLOGY

Speech Production

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I. 1. Explain the following : [10]
- a) Bernoulli effect
 - b) Intraoral pressure
 - c) Global resistance
 - d) laminar flowing

OR

2. Describe any two instrument used to measure air pressure. [10]

- II. 3. Compare and contrast the following : [2 × 5 = 10]
- a) Fundament frequency analysis vs. Formant frequency analysis.
 - b) Digital spectrogram vs. Long term Average Spectrum.

OR

4. Discuss the importance of analog-to-digital conversion, sampling and quantization in speech analysis. [10]

- III. 5. Describe the acoustic features of Nasals and Laterals. [15]

OR

6. Discuss the effects of gender and age on the acoustic characteristics of speech. [15]

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IV. 7. Describe the mechanism of normal cry using a model. [15]

OR

8. Discuss the applications of different types of speech synthesis. [15]



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Sl. No. 0049

Total No. of Pages : 2

I Semester M.Sc. (SLP) Examination, March - 2024

(Scheme : CBCS)

SPEECH-LANGUAGE PATHOLOGY

Child Language Disorders

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all the questions.

- I. 1. a) Critically evaluate any two theories of language acquisition. [10]
b) Outline dual-route model of reading. [5]

OR

2. a) Explain about the language acquisition in bilingual children. [10]
b) List the factors leading to variability in second language acquisition. [5]

- II. 3. Explain the classification of ASD as per DMS V & ICDII mention the communication deficits associated with Autism. [15]

OR

4. a) Outline the language & literacy characteristics in children with Specific Language Impairment (SLI). [10]
b) Write a note on types of learning disabilities. [5]

- III. 5. Explain in detail any two norm-referenced tools for the assessment of child language disorders. [10]

OR

6. Write a note on differential diagnosis of child language disorders. [10]

P.T.O.

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- IV. 7. a) Outline the general principles of management of child language disorders. [6]
b) Write a note on response to intervention in child language disorders. [4]

OR

8. Elaborate on linguistic approach in the management in child language disorders. [10]



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Sl. No. 0048

Total No. of Pages : 2

I Semester M.Sc. (SLP) Examination, March - 2024

(Scheme : CBCS)

SPEECH-LANGUAGE PATHOLOGY

Neuroscience of Speech and Language

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I. 1. a) Explain the cranial nerves important for the speech production. [10]
b) Describe the difference between anatomical and functional classification in CNS? [5]

OR

2. a) Highlight the importance of subcortical structures for speech and language processing. [10]
b) Highlight the importance of circle of Willes to human brain. [5]

- II. 3. a) Describe the significance of routine clinical neurological examination. [10]
b) Highlight the importance of neurophysiological methods over imaging methods of brain. [5]

OR

4. a) Describe the two important language related event related potentials. [10]
b) Critically analyse the use of fMRI in language research. [5]

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III. 5 Explain the generation and propagation of action potential in the nervous system. [10]

OR

6. Describe the classification of neuro transmitters and explain the role of neuro transmitters in any two speech and language disorders in brief. [10]

IV. 7. Explain any two theories of aging. [10]

OR

8. Describe the effect of aging on various speech and language behaviours. [10]



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Sl. No. 0018

Total No. of Pages : 2

I Semester M.Sc. (SLP) Examination, March - 2024

(Scheme : CBCS)

SPEECH-LANGUAGE PATHOLOGY

Clinical Linguistics and Multilingual Issues in Communication

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I. 1. Define and describe phonological disorders. What distinguishes these disorders from other speech and language impairments and what are the key characteristics exhibited by individuals with phonological disorders? [10]

OR

2. Giving suitable examples, explain the following : [2 × 5 = 10]
- a) Syntagmatic versus Paradigmatic relationships and their clinical relevance
- b) Form versus Substance and their clinical relevance

- II. 3. Answer the following questions :

- a) Analyze the challenges faced by children with semantic pragmatic disorder. [8]
- b) Explain how the semantic development takes place in preschool age children. [7]

OR

4. Explain the process of grammatical acquisition in children. How do they progress from simple grammatical structures to more complex ones and what are the key milestones in this developmental journey? [15]

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- III. 5. Explain the process of pragmatic acquisition in children. How do they develop pragmatic skills such as turn-taking, conversational repair and understanding of non-literal language and what are the key milestones in this developmental process? [15]

OR

6. Write short notes on : [3 × 5 = 15]

- a) Pidgin
- b) Dialect
- c) Deixis

- IV. 7. How do cultural norms and practices shape non-verbal cues and how can misunderstandings arise in cross-cultural communication due to these differences? Provide examples and explore strategies for navigating non-verbal communication barriers in multicultural settings especially while dealing with persons having language disorder. [10]

OR

8. Write short notes on : [2 × 5 = 10]

- a) Indo-Aryan language family
- b) Language deficiency

