31901/31951　　　||||||||||||||||||||||||||||||||||　**MB-2293**

I.　1.　a)　Explain the methods of controlling extraneous variables in speech and hearing research.　　**[5]**

　　　b)　Differentiate between quantitative and qualitative research.　**[5]**

OR

　　2.　Explain the importance of interview research in the field of speech & hearing. Discuss various types of interviews used.　**[10]**

II.　3.　a)　Compare and contrast single-subject designs and group designs.**[10]**

　　　b)　What are the factors affecting external validity of research?　**[5]**

OR

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

　　　a)　Quari-experimental designs

　　　b)　Generalization of research findings

　　　c)　Internal validity of research.

III. 5.   a)   Write the general properties of normal distribution.   **[5]**

        b)   Construct regression equation of Y on X for the following data. **[10]**

X	2	3	4	5	6	7	8
Y	5	7	9	11	13	15	17

<div align="center">OR</div>

6.   a)   Write an essay on applications, types and assumptions of ANOVA.

                                                       [10]

        b)   Differentiate between ANOVA and MANOVA.   **[5]**

IV. 7.   Explain various non-parametric tests applied for comparison between independent samples, with suitable examples from speech and hearing field.   **[10]**

<div align="center">OR</div>

8.   Test the association between Family History and Disorder in the following data.   **[10]**

Disorder	Family History	
	Positive	Negative
Present	100	70
Absent	20	50

<div align="center">ॐॐॐ</div>

31952

Sl. No. 0037

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Total No. of Pages : 2

I Semester M.Sc. (SLP) Examination, May - 2023
(Scheme : CBCS)
SPEECH LANGUAGE PATHOLOGY
Speech Production

Time : 2 Hours

Max. Marks : 50

Instruction :   *Answer all questions.*

I.   1.   Describe the effect of constructions in oral cavity and manner of productions.   **[10]**

OR

2.   Write a note on the mechanics of airflow and the types :   **[10]**

Laminar, Turbulent, and orifice.

II.   3.   a)   Describe the effect of cavity volume and resonances in vocal track with suitable examples.   **[7]**

b)   Explain the following :   **[4 × 2 = 8]**

   i)   Sampling

   ii)   Quantization

   iii)   Bandwidth

   iv)   Analog signal

OR

4.   Describe any two theories of speech production emphasizing their merits and demerits.   **[15]**

III. 5. Explain the acoustic characteristics of the following :   [3 × 5 = 15]

   a)   Glides and liquids

   b)   Fricatives

   c)   Plosives

OR

6.   Discuss the importance of spectrography in identification of different manner of articulation.   **[15]**

IV. 7. Infant any analysis is a useful protocol in early identification of congenital disorders causing communication disorders. Justify.   **[10]**

OR

8.   Describe the effect of following in acoustic analysis   **[10]**

   a)   Phonetic context

   b)   Disguise

   c)   Women's voice

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31953

IIIIIIIIIIIIIIIIIIIII **MB-2290**

Total No. of Pages : 2

I Semester M.Sc. (SLP) Examination, May - 2023
(Scheme : CBCS)
SPEECH LANGUAGE PATHOLOGY
Child Language Disorders

Time : 2 Hours   **Max. Marks : 50**

Instruction :   ***Answer all questions.***

I.   1.   a) · Critically evaluate social theory of language acquisition.   **[5]**

             b)   Explain dual route model with a help of a block diagram.   **[5]**

<div align="center">OR</div>

    2.   a)   Elaborate on normal process of second language acquisition.   **[6]**

             b)   What are the variables in second language acquisition?   **[4]**

II.   3.   a)   Compare & contrast DSMV & ICD11 criteria to diagnose Autism Spectrum Disorders.   **[8]**

             b)   Write a note on language problems associated with intellectual disabilities.   **[7]**

<div align="center">OR</div>

    4.   a)   What are the reading problems associated with hearing impairment?   **[7]**

             b)   Elaborate on different subtypes of specific learning disability.   **[8]**

III. 5. Explain the objectives, procedures and components of any two norm referenced tools for child language disorders.   **[10]**

OR

6. a) Write a note on relevance of neuro imaging methods in the assessment of child language disorders.   **[6]**

b) Write a note on importance of differential diagnosis of child language disorders.   **[4]**

IV. 7. a) Explain in detail any two evidence based practices in the treatment of children with specific language impairment.   **[8]**

b) Explain the importance of team approach in the management of child language disorders.   **[7]**

OR

8. a) Write a note on response to intervention in child language disorders.   **[7]**

b) Explain the principles, techniques involved in behavioural approach of management of child language disorders.   **[8]**

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31954

Sl. No.

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Total No. of Pages : 2

I Semester M.Sc. Examination, May - 2023
(Scheme : CBCS)
SPEECH LANGUAGE PATHOLOGY
Neuroscience of Speech of Language

Time : 2 Hours   Max. Marks : 50

Instruction :   *Answer all the questions.*

I.   1.   Explain the role of sub-cortex for speech-language processing.   **[15]**

OR

2.   Describe the cranial nerves important for speech processing and briefly outline its function.   **[15]**

II.   3.   Describe how examination of mental functions would help the SLP in further Speech-Language assessment.   **[10]**

OR

4.   Outline the contribution of neuro imaging techniques to understand neuroscience of speech & language.   **[10]**

III.   5.   Describe the role of neuro transmitters in neuropathological conditions leading to speech disorders.   **[10]**

OR

6.   Write a note on synapses & synaptic transmission.   **[10]**

P.T.O.

IV. 7.   Outline the structural & microscopic changes in brain that occur with ageing.   **[15]**

OR

8.   Write a note on effect of aging on speech & language ability.   **[15]**

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31955 ▌▌▌▌▌▌▌▌▌▌▌▌▌▌ **MB-2292**

Sl. No. 0045

Total No. of Pages : 2

I Semester M.Sc. (SLP) Examination, May - 2023
(Scheme : CBCS)
SPEECH LANGUAGE PATHOLOGY
Clinical Linguistics & Multilingual Issues in Communication

Time : 2 Hours
Max. Marks : 50

Instruction : Answer all questions.

I. 1. Describe the development of Phenology. [10]

OR

2. Giving suitable examples, discuss the scope of linguistics in clinical field. [10]

II. 3. Explain the acquisition of morphemes and syntax in children. [15]

OR

4. Discuss the Semantic disorders in Speech and Language disordered population. [15]

III. 5. Explain the Pragmatic development in children. [15]

OR

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

a) Language deficiency

b) Language deriency

c) Disglossia

P.T.O.

IV. 7. Especially in Indian context, discuss the multilingual and multicultural issues faced by the clinicians during the assessment and management of the population related to the Speech and Language disorders.　　**[10]**

OR

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

a)　Tonal Languages

b)　Non-verbal communication

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