**SI. No.** 0065

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# I Semester M.Sc. (SLP) Examination, June - 2022 (Scheme: CBCS)

# RESEARCH METHODS & STATISTICS IN SPEECH LANGUAGE & HEARING

Max. Marks: 50 Time: 2 Hours Answer all questions. Instruction: Explain the types of variables used in research? [5] T. 1. a) What are the differences between active & assigned variables? b) Explain with suitable examples. What is an extraneous variable? Explain how do you control it in a research study with hypothetical example. [5] Write a research proposal of longitudinal design in the field of audiology/ 2. [15] Speech language pathology. [10]Describe the steps involved in evidence based practice. II. 3. OR Explain various types of validity & reliability used in speech & hearing 4. [10]research.

III. 5. a) What do you mean by hypothesis testing? Use appropriate t-test to test the significance between 2 groups. [7]

Group1	7	5	3	4	6	7
Group2	8	9	8	7	10	9

b) What is normal distribution of data? Write the general properties of normal distribution. [3]

31	95	51	MA-2	606
	6.	a)	Write the assumptions of ANOVA.	[5]
		b)	What is the need of post-hoc tests? Explain with suitable example and the suitable example.	amples. [5]
IV.	7.	a)	What is Friedman's test & when do you apply it?	[5]
		b)	What is a measure of agreement? Explain the procedure to cait.	alculate [5]
		c)	Write a note on chi-square test.	[5]
			OR .	
	8.	a)	Describe the application of non-parametric tests.	[5]
		b)	What is Kruskal - wallis test & how do you perform it?	[7]
		c)	What are the differences between association and correlations are the differences between associations are the difference between asso	ation in [3]

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# I Semester M.Sc. (SLP) Examination, June - 2022 (Scheme: CBCS) SPEECH LANGUAGE PATHOLOGY

# **Speech Production**

Time: 2 Hours			rs	Max. Marks: 50		
Inst	tructi	ion:	Answer as per instructed.			
I.	1.	a)	Explain the mechanics of airflow.	· [5]		
		b)	Write a note on working principle and measur spirometer.	ement obtained in wet		
			OR			
	2.	Wri	te a short note on:			
		a)	Bernoulis principle in voice production.	[5]		
		b)	Working of strain - gauge manometer.	[5]		
II.	3.	a)	Discuss Source - Filter theory in detail.	[10]		
		b)	Explain analog to digital conversion.	[5]		
			OR			
	4.	Wri	te short notes on :			
		a)	Inverse Filtering	[5]		
		b)	LTAS	[5]		
		c)	Cepstral analysis	[5]		

Ш.	5.	a)	Discuss the acoustic characteristics of vowels and diphthong	s.[10]
		b)	Explain different types of spectrograms.	[5]
			OR	
6.		Disc	cuss the acoustic characteristics of:	
		a)	Stop consonants	[5]
		b)	Fricatives	[5]
		c)	Nosals	[5]
IV. 7.		Elal	borate on the acoustic characteristics of cry in abnormal infant	s.[10]
			OR	
	8.	Exp	plain the applications of:	
		a)	Speech synthesis	[5]
		b) -	Spectrographic analysis in forensic sciences.	[5]



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# I Semester M.Sc. (SLP) Examination, June - 2022 (Scheme: CBCS)

### SPEECH LANGUAGE PATHOLOGY

### Child Language Disorder

Time: 2 Hours

Max. Marks: 50

#### UNIT - I

1. Critically evaluate biological maturation theory with a note on its implications to assessment & management of child language disorders. [10]

#### OR

2. Write a note on phonological, semantic & syntactic development in simultanious bilingual chidren. [10]

#### UNIT - II

3. Describe the linguistic & literacy characteristics of different types of specific learning disability. [15]

#### OR

4. What are the different subtypes of attention deficit hyper activity disorders & elaborate on its associated behavioural & language characteristics. [15]

#### UNIT - III

5. Write short notes on:

 $[3 \times 5 = 15]$ 

- a) LPT
- b) KLT
- c) ELST

#### OR

6. Write a note on implication of neuroimaging & cortical potentials in the assessment of child language disorders [15]

P.T.O.

### **UNIT - IV**

7. Explain in detail the steps involved in any two techniques for intervention of child Language disorders which are evidence based. [10]

#### OR

- 8. a) Outline the general principle to management of child language disorders.[6]
  - b) Write a note on cognitive linguistic approach for management of child language disorders. [4]

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# I Semester M.Sc. (SLP) Examination, June -2022 (Scheme: CBCS)

### SPEECH-LANGUAGE PATHOLOGY

## NeuroScience of Speech and Language

Max. Marks: 50 Time: 2 Hours Answer all questions. Instruction: Explain the origin and pathway of sensory and motor branches of T. 1. a) Trigeminal and Facial, nerve. [10]Write a note on blood supply to the brain. [5] b) OR Write a note on importance of Basal Ganglia & cerebellum in motor 2. a) [10] control. [5] Describe about brain plasticity. b) Discuss the importance of sensory and motor examination in neuro П. 3. a) diagnostic procedure. [10][5] Delineate the principles and applications of TMS. b) OR Compare and contrast FMRI and Event related potentials. [10]4. a) Discuss the applications of priming in neurolinguistics research. b) [5] Delineate the physiology of resting potential and action potential in Ш. 5.

nervous system.

[10]

6. a) Describe the classification of neurotransmitters in human nervous system. [5]

b) Explain the role of neurotransmitters in parkinson's disease and Alzheimer's disease. [5]

IV. 7. Discuss the cognitive changes with respect to aging.

[10]

bo:

OR

8. Describe the effect of aging on speech and language and suggest the possible ways to prevent it. [10]



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# I Semester M.Sc. (SLP) I Year Examination, June - 2022 (Semester Scheme)

# CLINICAL LINGUISTICS AND MULTILINGUALISSUES IN COMMUNICATION

Time: 2 Hours Max. Marks: 50

Instruction: Answer all questions.

I. 1) Discuss the scope of Linguistics in the field of Speech Language Pathology. [10]

OR

- 2) Illustrate the Phonological disorders in case of hearing impaired children. [10]
- II. 3) Explain the acquisition of morphology and syntax children. [15]

OR

- 4) Discuss the semantic disorders in speech and Language disordered groups. [15]
- III. 5) Discuss the Pragmatic disordern with respect to clinical disorders. [15]
  OR
  - 6) Write short notes on:

 $[3 \times 5 = 15]$ 

- a) Registers
- b) Pidgin
- c) Language deficiency

IV. 7) Discuss some of the cultural issues in verbal and non-verbal communication faced by clinicians while dealing with persons with speech-language disorders. [10]

OR

8) Write short notes on:

[2×5=10]

- a) Tibeto Burman Languages
- b) Language and thought relationship

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