

LC 010

III Semester M.Sc. Examination, December 2005
Speech Language Pathology
Fluency and its Disorders

Time: 3 Hours

Max. Marks; 80

Instructions: *Answer ALL questions.*

- I. 1. a) Discuss the factors that you would consider while phenotyping stuttering. 10
- b) "Stuttering as a Auditory Processing Disorder"-Discuss. 6
- OR**
2. a) "Subgrouping of stuttering may be a solution to understand the nature of stuttering" - Discuss. 10
- b) Discuss the variability of stuttering. 6
- II. 3. Discuss articulatory dynamics in stuttering. 16
- OR**
4. Explain stuttering as a defect in airflow and vocalisation. 16
- III. 5. a) Discuss the differences between stuttering and non-stuttering individuals with regard to the performance of parts of speech mechanism other than larynx. 10
- b) Explain the aberrant laryngeal activity during moments of Stuttering. 6
- OR**
6. a) Discuss stuttering as an involuntary loss of speech control. 10
- b) What do brain imaging studies show about the structure and functioning of brain in stutterers ? 6

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IV.7. Discuss the differences - speech and non-speech, between stutterers and non-stutterers. Why these differences can't be considered as causes of stuttering. 16

OR

8. Write a program for prevention of stuttering. 16

V. 9. a) What problems do researchers encounter when they try to determine the number of stutterers who recover without treatment ? 10

b) Describe procedures that can be used to reduce negative feelings and attitudes and eliminate avoidance tendency in persons with stuttering, 6

OR

10. a) Cluttering is a central language imbalance - Comment. 10

b) Compare and contrast the treatment principles and procedures of treatment for stuttering and cluttering. 6

III Semester M.Sc. Examination, December 2005
 Speech Language Pathology
 Speech and Language Processing

Time: 3 Hours

Max. Marks: 80

Instruction: Answer ALL questions.

1. a) Discuss the fundamental issues in speech perception. 6
 b) How is the speech signal processed in the auditory pathway ? 10
 OR
2. a) Discuss any one theory of speech perception. 8
 b) Discuss speaker-related and rate-related perceptual constancy factors. 8
3. a) Delineate the acoustic cues for vowel perception. 10
 b) Discuss speaker dependent and speaker independent strategies for vowel **normalisation.**
 OR
4. a) Discuss the acoustic cues of nasal consonants with illustrations. 6
 b) Explain the paradigms, identification, discrimination, discrimination using synthetic continuum and fine-grained auditory discrimination with examples. 10
5. a) What is word monitoring and cross-modal processing ? Discuss with examples. 10
 b) Discuss three lines of research in lexical and phonetic processes. 6
6. a) What are the issues in speech word recognition ? 8
 . b) Discuss Neighbourhood activation model. . 8
7. a) Describe the Dual-route model of visual word recognition. 8
 b) Discuss and critically evaluate the division of labor used by Dual-route and Connectionist model. 8
 OR
8. a) Discuss the studies on stroop task. 8
 b) What is the role of phonological information in visual word recognition ? 8
9. a) What are the requirements of sentence comprehension ? 8
 b) Write a historical review on sentence processing. 8
 OR
10. a) Discuss the models of attachment ambiguity. 8
 b) Discuss the Garden-path model. 8

III Semester M.Sc. Examination, December 2005
Speech-Language Pathology
Aphasia

Time: 3 Hours

Max. Marks:80

Instruction: Answer ALL questions.

- I. 1. a) What is the importance of the study of aphasia in bilinguals ? **6**
b) How do fMRI studies of language processing in bilinguals correlate to what is known of functional neuroanatomy of language based on monolinguals ? **10**
- OR
2. a) What is the importance of the study of aphasia in illiterates ? /• **6**
b) How do studies of language processing and aphasia in illiterates correlate to what is known of functional neuroanatomy of language based on literates ? **10**
- II. 3. a) Name the different types of acquired dyslexia. **6**
b) Outline a differential diagnostic procedure for the same. **10**
- OR
4. a) Name the different types of anomia. **6**
b) Outline a differential diagnostic procedure for the same. **10**
- III. 5. Functional communication profiles of aphasics is more than sufficient for management of aphasics. The diagnostic or assessment tests are not necessary. Discuss this statement with for and against arguments. **16**
- OR
6. a) Name and outline a right hemisphere language battery. **10**
b) Justify the need for such a battery. **6**
- IV. 7. Define Schuell's stimulation approach, to aphasia therapy; what are Schueli's assumptions on the language of Aphasics which underly stimulation approach ? What are the general principles of this approach ? **16**

OR

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8. a) What are the settings in which a speech-language pathologist can delivery his services to aphasics ? Bring out the differences between Indian and Western contexts in service delivery settings. What are the main goals of management in each of these settings ? 12
- b) Write short note on speech-language therapy for subcortical aphasics of the thalamic type with special emphasis on efficacy. 4

V. 9. Write brief notes on:

- a) Culturally appropriate assessment. 4
- b) PET Scan. 4
- c) Aided AAC Strategies. 4
- d) CT Scan. 4

10. Write notes on:

- a) PAL PA 4
- b) Pragmatic approach to aphasia rehabilitation. 4
- c) Naming in **TBI** 4
- d) Language of Schizophrenics. 4

III Semester M.Sc. Examination, December 2005
Speech Language Pathology
Voice & its Disorders

Time: 3 Hours

Max. Marks:80

Instruction: *ALL questions are COMPULSORY.*

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| I. | 1. | .Describe different one-mass models of vocal fold vibration. | 16 |
| | | OR | |
| | 2. | a) EGG is a boon to speech pathologist - Discuss. | 10 |
| | | b) Describe different modes of vocal fold vibration. | 6 |
| II. | 3. | Delineate the importance of aerodynamic measures in the evaluation of clients with voice disorder. | 16 |
| | | OR | |
| | 4. | a) Describe the merits and demerits of different tests in the assessment of nasality. | 8 |
| | | b) Define and discuss the utility of various measures obtained through aerophone. | 8 |
| III. | 5. | Describe in detail the pathophysiological changes seen on vocal folds due to vocal abuse/misuse. | 16 |
| | | OR | |
| | 6. | What are the acoustical and perceptual changes seen in organic voice disorders ? | 16 |
| IV. | 7. | a) Describe the anatomical changes in vocal fold due to ageing. | 8 |
| | | b) Elaborate on the voice problems in transsexuals and the role of speech pathologist in addressing these problems. | 8 |
| | | OR | |
| | 8. | a) Describe the acoustical, perceptual and physiological aspects of Esophageal speech. | 8 |
| | | b) Describe the different modes of air intake for achieving gastric speech. | 8 |
| V. | 9. | a) "Professional voice care is a challenging task for a speech pathologist" - Discuss, | 10 |
| | | b) Write a short note on - Botax injection. | 6 |
| | | OR | |
| | 10. | a) Describe different types of facilitatory voice therapy techniques. | 10 |
| | | b) Discuss the importance of phonosurgery and its effect on voice. | 6 |

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III Semester M.Sc. Examination, December, 2005
Speech - Language Pathology
Suprasegmentals and Music, Acoustics

Time: 3 Hours

Max. Marks: 80

Instruction: *Answer ALL questions.* -

UNIT - T

1. a) What are the properties of a mean tone temperament scale ? 10
 - b) Discuss the different types of music. 6
- OR**
2. a) Describe the scale of just intonation or musical diacritic scale. 8
 - b) What are the physiological prerequisites for singing ? 8

UNIT - II

3. a) Discuss the respiratory basis of singing. 10
 - b) What are the strategies singers use to raise their pitch ? 6
- OR**
4. a) Discuss the common causes of vocal problems in singers. 8
 - b) Write a note on Frequency and Intensity control in singers during singing. 8

UNIT - III

5. a) Discuss research findings on production and perception of emphatic stress. 10
 - b) What are the features of intonation ? 6
- OR**
6. a) Discuss the factors affecting the acquisition of intonation and stress. 8
 - b) Differentiate tone and intonation. Suggest subjective and objective methods of evaluating tone and intonation. 8

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UNIT - IV

7. a) Discuss four studies on the impaired prosodic' functions in persons with right hemisphere damage. 8
- b) Design a study to investigate perception of stress in brain damaged. 8

OR

8. a) Discuss the hypothesis of Van Lancker and Sidtis on the neural basis of suprasegmentals. 8
- b) Describe speech transformation method. How is it helpful in understanding the role of suprasegmentals in speech intelligibility ? 8

UNIT-V

9. a) Discuss the multilingual variations of suprasegmentals. 8
- b) Discuss dysprosodies in dysarthrias. " 8

OR

10. a) What are the suprasegmentai errors in hearing impaired ? 8
- b) Highlight the differences in intonation between two individuals with hearing impairment, one speaking a non-tonal and the other speaking a tonal language. 8