

OA 010 (Sp & Hg)

I Semester B.Sc. Examination, Nov./Dec. 2005

(Integrated Semester Scheme)

Speech and Hearing

Introduction to Speech and Language Pathology

Time: 2 Hours

Max. Marks: 50

Instructions: Answer all the questions. All questions carry equal marks.

- I. La) Discuss the differences and similarities between speech, language and communication. 5
- 1.b) Discuss the statement: "Speech as an overlaid function". 5
- OR
- 2.a) Explain the different modes of communication. 5
- 2.b) Explain the process of speech chain. 5
- II. 3.a) Discuss the source filter theory of speech production. 5
- 3.b) Explain the pitch changing mechanism. 5
- OR
4. Discuss the aerodynamic theory of speech production. 10
- III. 5. Discuss the development of voice in a normal child. 10
- OR
6. Discuss the development of fluency in a normal child. 10
- IV. 7. Write short notes on: (5x2=10)
- a) Incidence v/s prevalence d) Acquisition v/s learning
- b) Normality v/s abnormality e) Management v/s treatment.
- c) Delay v/s deviance
- 8.a) What are the causes of aphasia ? 5
- 8.b) Differentiate between speech disorders and language disorders. 5
- V. 9. Describe in brief: (5x2=10)
- a) Specific language impairment d) Androphonia
- b) Dyslexia e) Apraxia
- c) Fluency disorder
- OR
10. Describe the speech and language characteristics of children with congenital hearing impairment. 10
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OA020(Sp&Hg)

I Semester B.Sc. Examination, November/December 2005

Speech and Hearing Introduction to Audiology

Time: 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I. What information would you like to collect from a case who has sensorineural hearing loss ? 10
- OR**
- Discuss the importance of case history to an audiologist. 10
- II. How will you establish a curve for threshold of audibility ? Write in detail. 10
- OR
- Why is the auditory response area narrow at low and high frequency region and what are the limitations and advantages ? 10
- III. Intensity does not play a major role in pitch variation. Discuss. 10
- OR
- Discuss the applications of differential sensitivity and highlight their importance. 10
- IV. a) How do you classify the causes of hearing loss ? 3
- b) Discuss the symptoms of conductive hearing loss. 7
- OR
- Describe various causes of conductive hearing loss in children. 10
- V. Define occlusion effect. How will you estimate occlusion effect ? Discuss its importance. 10
- OR
- Highlight the utility and limitations of tuning fork tests. 10
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I Semester B.Sc, Examination, Nov./Dec. 2005

(Integrated Semester Scheme)

Speech and Hearing

Anatomy, Physiology and Pathology of the Speech and Hearing Systems

Time: 2 Hours

Max. Marks : 50

PART - A

Anatomy of Speech and Hearing Systems

- Answer **any two** of the three questions : 20
1. a) Briefly describe the supporting structure of the respiratory system. 4
 - b) Describe the structure of inner and outer hair cells with neat diagrams. 6
 2. a) Describe the anatomical landmarks of the middle ear cavity. 5
 - b) Describe the structure of the soft palate with a neat diagram. 5
 3. a) Write notes on :
 - i) Bones of the facial skeleton. 3
 - ii) Blood supply to tongue and larynx. 3
 - iii) Basilar membrane. 4

PART-B

Physiology of Speech and Hearing Systems 15

1. a) Explain the mechanism of vocal fold closure. 4
- b) Resonance function of external ear. 4
- a) Describe the functions and role of internal and external intercostal muscles in speech. 4
- b) Describe Bekesy's travelling wave theory of hearing. 4
2. a) Describe of how stops and fricatives are produced. 3
- b) Describe the functions of middle ear muscles. 4

OR

- a) Describe a bone conduction theory of hearing. 3
- b) Describe the functions of the intrinsic muscles of the larynx. 4

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PART-C
(Pathology of Speech and Hearing Systems)

1. Discuss the pathogenesis of cell injury. 7

OR

Describe :

a) Morphology of acute inflammation. 4

b) Mechanism of wound healing. 3

2. Write short notes on **(any two)**: **(4x2=8)**

a) Laryngeal papilloma

b) Quinsy

c) Acoustic neuroma

d) Aural polyp.

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I Semester B,Sc. Examination, Nov./Dec. 2005 (Integrated Semester Scheme) Speech and Hearing Otolaryngology

Time: 2 Hours

Max. Marks: 50

Instructions: 1) Draw diagrams *wherever* necessary.
2) Answer *all* the questions.

- I. 1) Describe the inner ear with a neat labelled diagram. 10
OR
2) Describe the aetiology and clinical features of non-suppurative otitis media. 10
- II. 3) a) Describe the aetiology and clinical features of cerebellopontine angle tumors. 8
b) Write a note on facial paralysis. 2
OR
4) Write in detail about the causes of sensorineural hearing loss. 10
- III. 5) a) Write a note on : 5+5=10
a) Velopharyngeal incompetence
b) Tonsillitis.
OR
6) a) Describe tumors of jaw and oral cavity. 5
b) How do tonsils and adenoids influence speech production ? 5
- IV. 7) a) What are the causes of paralysis of vocal cords ? Describe any one cause in detail. 5+5=10
b) What are the congenital diseases of larynx ?
OR
8) a) Describe the tumors of larynx. Write a note on any one of the laryngeal tumors. 5+5=10
b) Which are the structural disorders of larynx ? Write in brief on any one of the conditions.
- V. 9) Write in brief on the congenital abnormalities of the oesophagus. Write a note on tracheo-oesophageal fistula. 10
OR
10) What are the different types of neoplasms of oesophagus ? Write a short note on any one type. 10
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I Semester B.Sc. (Sp. & Hg.) Examination, November/December 2005
(Scheme : ISS)

Linguistics, Phonetics & Language Science

Time: 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I 1. Illustrate the following with examples :
Phoneme, Allophone, Intonation, Stress and Lexis. 10

OR

2. a) What is distinctive feature ?
b) What is distinctive feature system ?
and
c) What is distinctive feature matrix ? 10

- II 3. Draw a vowel diagram involving both primary and secondary cardinal vowels and illustrate each vowel. 10

OR

4. a) What is phonotactics ? Give the phonotactic patterns in any one of the Indian languages known to you. 5
b) List all the speech organs and give a brief note on each of them. 5

- III 5. Explain the concept of deep and surface structure with examples. 10

OR

6. What is IC analysis ? Illustrate in detail the principles of IC analysis as proposed by Hockett. 10

- IV 7. a) Describe the stages of first language acquisition in children. 8
b) Name any two theories of language acquisition. 2

OR

8. a) What, is bilingualism ? Describe the types of bilingualism. 5
b) Describe with examples, the unefulness of linguistics in clinical practice. 5

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V 9. Identify the morphemes and their respective allomorphs in the following language data:

10

- | | |
|-----------------------|------------------|
| 1. -iiləkwaalæ | to eat |
| 2. ənaaŋgiito | someone's neck |
| 3. ɖaaŋɖa | canoe one |
| 4. ʈeeŋoora | cat one |
| 5. gaajiiḱwebeegi | he bent |
| 6. gaatuuwabeegi | he threw |
| 7. bagaabe | to bite |
| 8. ooŋootireeŋe | someone's head |
| 9. -aaŋgiito | neck |
| 10. gaakwaatuuwabeegi | he himself threw |
| 11. ɖaaŋe | canoe |
| 12. gaakwijiiḱwebeegi | he himself bent |
| 13. ʈeeŋo | cat |
| 14. mibagaabe | I bite |
| 15. -ootireeŋe | head |
| 16. miiləkwaalæ | I eat |

OR

10. Prepare a phonetic chart for the following nonsense verses :

10

ʌŋ ʌŋgə ʌŋgəl wi unli umli um ɔrte akəl ikəl
ti dʒɜ̀bə.dʒi dʒɜ̀bə dʒi dʒɜ̀bə fi wɜ̀kə tikɪŋ olte tʃɜ̀le bræze
vəbrounst leflu ʃɪlɪ ʃalɪ ɸbæʃki zé wan æz ɪn ʌfiʃ θət st
ud

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I Semester B.Sc. Examination, November/December 2005
(Integrated Semester Scheme)
Speech and Hearing
Psychology related to Speech and Hearing

Time: 2 Hours

Max. Marks: 50

Instruction: Answer all the questions following the directions given below.

- I. 1. Describe the role of clinical psychology in speech and hearing disorders. 10
- OR
2. a) Describe the concepts of normality and abnormality 6
b) Describe the biological tradition of mental disorders. 4
- II. 3. a) Describe the need and rationale for classification of behavioural disorders. 5
b) Describe the relevance of DSM - IV for speech and hearing disorders. 5
- OR
4. Write short notes on the following:
- a) Clinical interview 2
b) Case history taking 2
c) Observation 2
d) Any two personality tests 2
e) Clinical attitude 2
- III. 5. Describe the various stages of speech-language and cognitive development. 10
6. Describe most commonly used cognitive tests in the assessment of speech and hearing problems individuals. - Give at least two tests on each function. 10
- TV. 7. a) Define learning. 2
b) What are the various types of learning? 8
8. a) Describe operant conditioning and its application in speech-language of pathology. 5
b) Describe classical conditioning and its application in Audiology. 5

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V. 9. Describe the biological basis of learning. 10

OR

10. Write short notes on the following:

- a) Shaping and chaining 2
- b) Prompting 2
- c) Modelling and imitation 2
- d) Reinforcement 2
- e) Time out 2