

OA010(Sp&Hg)

I Semester B.Sc. Examination, Nov./Dec. 2007
(Integrated Semester Scheme)
Speech and Hearing
Introduction to Speech and Language Pathology

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all the questions.

- I. 1) Write short notes on :
- a) Consonants 5
 - b) Speech as an overlaid function. 5
- OR
- 2) a) Vowels 5
- b) Differentiation of speech, language and communication. 5
- II. 3) With a neat diagram, explain the 'Speech Chain'. 10
- OR
- 4) Describe the myoelastic aerodynamic and neurochronaxic theories of voice production. 10
- III. 5) What are the prerequisites for speech and language development ? 10
- OR
- 6) Describe the stages of speech and language development. 10
- IV. 7) a) Define Misarticulation. 2
- b) What are the causes of Misarticulation ? 4
 - c) Describe the various types of misarticulation with suitable examples. 4
- OR
- 8) Explain the different voice disorders. 10
- V 9) Describe the characteristics of Autism. 10
- OR
- 10) What are the different ways of classifying Mental retardation ? **10**
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I Semester B.Sc. (Sp. & Hg.) Examination, Nov./Dec. 2007

(Scheme : ISS)

Speech and Hearing

Introduction to Audiology

Time : 2 Hours

Max. Marks: 50

I. 1) Compare and contrast the case history form for children and adults. 10

OR

2) Describe in detail the need and details of information required for case histories. 10

II. 3) i) Define: 4

a) Sound pressure

b) Threshold of audibility.

ii) Differentiate between: 6

a) Hearing level and sensation level

b) Power and pressure formulae of dB.

OR

4) Compare and contrast: 10

a) MAP and MAF

b) MCL and UCL.

III. 5) a) Define frequency and intensity. 10

b) What are their psychological correlates ?

c) Explain in what units they are represented.

OR

6) a) What are equal loudness contours ? 2

b) Illustrate with figure the relationship between loudness level, intensity and frequency. 6

c) What is JND? 2

P.T.O.

- IV. 7) a) List causes of sensorineural hearing loss. 4
b) Describe the general characteristics of sensorineural hearing loss. 6

OR

- 8) a) How do you classify hearing loss ? 4
b) Describe the general characteristics of conductive hearing loss. 6

- V. 9) a) List the tuning fork tests. 2
b) Which of the tuning fork tests have audiologic version? 4
c) How are the results interpreted ? 4

OR•

- 10) a) Name and describe a tuning fork test that compares hearing in two modalities. 3
b) Name and describe a tuning fork test that uses Stenger principle. 3
c) How do you interpret these tests ? 4
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OA030(Sp&Hg)

I Semester B.Sc. Examination, Nov./Dec. 2007

(Integrated Semester Scheme)

Speech and Hearing

Anatomy, Physiology and Pathology of Speech and Hearing Systems

Time : 2 Hours

Max. Marks : 50

PART - A

. Marks : 20

(Anatomy of Speech and Hearing Systems)

Instruction : Answer **any two** (2) questions including Q. 3 which is compulsory.

1. Describe the structure of larynx with a neat labelled diagram. 10
2. Describe the anatomy of the middle ear cleft. 10
3. Write short notes on **any two** of the following : (2x5)
 - a) Blood supply to cochlea
 - b) Lungs
 - c) Cranial nerves
 - d) Lobes of brain.

PART - B

Marks: 15

(Physiology of Speech and Hearing Systems)

Instruction : Answer **all** the questions.

- I. a) Compliance of the oval and round windows is not important for bone conduction sound transmission. Discuss. 4
- b) Discuss the basilar membrane movement during cochlear transduction. 3

OR

Write notes on :

- a) Head shadow effect 3
 - b) Cochlear microphonics. 4
- II. a) Explain the functions of larynx. 4
 - b) Discuss the functions of extrinsic muscles of the tongue. 4

OR

Write notes on :

- a) Total lung capacity. 4
- b) Broca's area. 4

P.T.O.

(Pathology of Speech and Hearing Systems)

Instruction : Answer all questions.

What is cell injury ? Describe the etiology and pathogenesis of cell injury. 7

OR

Discuss and differentiate with examples , inflammation from infection. 7

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

a) Acoustic neuroma

b) Meniere's disease

c) Singer's nodule

d) Metastasis.

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I Semester B.Sc. Examination, Nov./Dec. 2007 (Integrated Semester Scheme) Speech and Hearing Otolaryngology

Time : 2 Hours

Max. Marks : 50

Instruction : Draw diagrams wherever necessary.

- I. 1) Describe the aetiology, pathology, clinical features and management of acute suppurative otitis media. 10
- OR
- 2) Describe the traumatic injuries of the Ear. 10
- : II. 1) Describe the aetiology, pathology, clinical features and management of otosclerosis. 10
- OR
- 2) Define cerebellopontine angle. Describe signs, symptoms, diagnosis and management of acoustic neuroma. 10
- III. Write short notes on :
- 1) a) Acute tonsillitis. 5
- b) Hypernasality 5
- OR
- 2) a) Chronic pharyngitis 5
- b) Waldayer's Ring 5
- IV. 1) a) Describe the laryngeal injuries. 6
- b) Multiple juvenile papilloma larynx. 4
- OR
- 2) a) Describe the various paralysis of the vocal cords and its management. 7
- b) Vocal cord polyp. 3
- V. 1) Describe the congenital abnormalities of oesophagus. 10
- OR
- 2) Describe the Lesions of oral articulatory structures affecting speech mechanism. 10
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OA 050 (Sp & Hg)

I Semester B.Sc. (Sp & Hg) Examination, Nov/Dec. 2007
(Integrated Semester Scheme)
Speech and Hearing
Linguistics, Phonetics and Language Sciences

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all the questions.

- I. 1) a) Define linguistics. Describe the purpose and function of different branches of linguistics with examples. 5
- b) Write in brief on :
- i) Derivational morphology
- ii) Inflectional morphology 5
- OR
- 2) a) Delineate the differences between animal and human communication systems. 5
- b) Discuss in brief the concept of "morphophonemics" with suitable examples. 5
- II. 3) a) Mention the types of grammatical transformations. 5
- b) Write a note on competence and performance, dichotomy. 5
- OR
- 4) a) Discuss the concept of acceptability and grammaticality. Illustrate wherever necessary. 5
- b) Explain deep structure and surface structures with examples. 5
- III. 5) a) Differentiate between :
- i) Phonology and phonetics
- ii) Anticulatory phonetics and acoustic phonetics
- iii) Segmentals and suprasegmentals. 6
- b) Write a note on classification of speech sounds on the basis of distinctive features. 4

OR

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- 6) a) What are vowels ? Differentiate vowels from consonants. 5
b) Explain the IPA transcription system and its usefulness in clinical situations. 5
- IV. 7) a) What are the differences between first and second language acquisition ? 6
b) Explain in brief the concept of 'linguistic interference'. 4
- OR
- 8) a) Discuss in detail the application of linguistics in clinical diagnostic work. Discuss with special reference to disorders of phonology. 10
- V. 9) a) What is multilingualism ? 2
b) Explain different language families of India. 8
- OR
- 10) a) "Writing is a secondary linguistic skill". Justify the statement with your knowledge of linguistics. 6
b) Write a note on the types of writing systems. 4
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OA 060 (Sp & Hg)

I Semester B.Sc. Examination, Nov./Dec. 2007
(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) Define clinical psychology. Describe the scope of clinical psychology as a specialty in health science with special reference to the field of speech and hearing. 10

OR

- 2) a) Describe biological and socio-cultural models of clinical psychology. 6
b) Based on health and process criteria-explain normality and abnormality. 4

- II. 3) a) Briefly explain any five types of clinical interviews. 5
b) Explain the need for classification of abnormal behavior. 5
OR

- 4) Write short notes on the following: (2x5=10)
a) Personal history
b) Clinical Observation
c) Neuropsychological assessment
d) ICD10
e) Any two rationale for classification of abnormal behaviour.

- III. 5) Describe various stages of cognitive development according to Piaget. 10
OR

- 6) Briefly explain the commonly used intelligence tests in the assessment of individuals with speech and hearing problems. 10

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- IV. 7) a) What is learning? 2**
- b) Explain** various criterion used in measurement of learning. 8
- OR
- 8) a) Describe any three principles of classical conditioning with special reference to the field of speech and hearing. 6
- b) Define most frequently using schedules of reinforcement. 4
- V. 9) Describe how various techniques that were derived from operant conditioning in the skill training may be utilized in the management of individuals with communication disorders. 10**
- OR
- 10) Write short notes on the following: : (2x5=10)
- a) Timeout
 - b) Neuro chemical correlates of learning
 - c) Cerebral conditioning
 - d) Split brain experiments
 - e) Overcorrection.
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