

# OA010(Sp&Hg)

**I Semester B.Sc. Examination, Nov./Dec. 2006**  
**(Integrated Semester Scheme)**  
**Speech and Hearing**  
**Introduction to Speech, Language Pathology**

Time : 2 Hours

Max. Marks : 50

*Instructions : 1) Question No. 1 is compulsory.*  
*2) Answer any four questions from the remaining.*

- I. Write short notes on : 10
- 1) a) Broca's Aphasia  
OR  
b) Vocal folds.
- 2) a) Speech chain  
OR  
b) Cluttering.
- II. 3) Describe the source filter theory of vowel production. 10  
OR
- 4) a) How do consonants and vowels differ ? 3  
b) List the vowels and consonants in your language. Describe briefly how long vowels and fricatives of your language are produced ? 7
- III. 5) a) Draw a neat diagram of larynx indicating cartilages and label the parts. 6  
b) List the functions of larynx. 4
- 6) Intrinsic muscles of larynx are necessary for phonation - Justify the statement. 10
- IV. 7) a) What is cerebral palsy ? 2  
b) Describe the salient speech characteristics of any three types of cerebral palsy. 8  
OR
- 8) a) Differentiate between dysarthria and dyslalia. 3  
b) Describe the speech and language characteristics of a child with moderate hearing loss. 7

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- V. 9) a) Define speech and language. 4  
b) Describe the stages of speech and language development. 6

OR

- 10) Write an essay on articulation development. 10

- VI. 11) a) What is dysphonia ? 2  
b) List the characteristics of normal voice. 3  
c) Describe any 2 types of dysphonia. 5

OR

- 12) a) Explain the different methods of Alaryngeal speech. 6  
b) Write short notes on SLI 4
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# OA 020 (Sp & Hg)

**I Semester B.Sc. Examination, November/December 2006**  
**(Integrated Semester Scheme)**  
**Speech and Hearing**  
**Introduction to Audiology**

Time : 2 Hours

Max. Marks : 50

*Instruction : Answer all the questions following the instructions given.*

- I. 1. 'Case history format is different for different age groups.' Explain the statement with case illustration. 10
- OR
2. Describe in detail, with examples, the need for case history. 10
- II. 3. Define:
- i) dB
  - ii) Threshold of Hearing
  - iii) Threshold of audibility
  - iv) Threshold of pain 6
- Give the application of UCL and MCL. 4
- OR
4. Explain dB HL Vs. dB SL. 4
- What are the applications of MAP and MAF ? 6
- III. 5. Compare and contrast:
- Pitch and Loudness
  - Sones and Phons 10
- Explain the units and physical correlates of pitch and loudness.
- OR

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6. Draw equal loudness contours to show relationship between loudness level and intensity. 6
- Explain the use of phon and Sone graph. 4
- IV. 7. What are the causes of acquired hearing loss ? What are the features of this kind of hearing loss ? 10
- OR
8. Define SN hearing loss. What are the causes of SN loss ? 10
9. Explain a tuning fork test that uses occlusion effect. 6
- What will the results of tuning fork tests in conductive hearing loss cases ? 4
10. What is Stenger principle ? Explain a tuning fork test that is based on this. 6
- Explain the results of tuning fork tests in sensorineural loss cases. 4
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# OA 030 (Sp & Hg)

I Semester B.Sc. Examination, Nov./Dec. 2006

(Int. 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** questions. Illustrate wherever necessary.

**10x2=20**

1. Describe the anatomy of larynx.
2. Explain the structure of cochlea.
3. Distinguish between bony and membranous labyrinth.
4. Compare and contrast the oral and nasal cavities.

## P A R T - B

(Physiology of Speech and Hearing Systems)

Answer **all** questions.

1. Explain the functions of
  - a) Tongue 4
  - b) Semicircular canals 4

OR

2. Discuss the functioning of inner ear. 8
3. Describe the action of muscles involved in velopharyngeal closure. 7

OR

4. Explain the transmission of Information through the afferent auditory pathway. 7

**P.T.O.**

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**PART-C**  
**(Pathology of Speech and Hearing Systems)**

Answer **all** questions.

I. Describe the etiopathogenesis of cell injury in detail.

7

OR

Describe in detail the tumors of larynx.

II. Write short notes on **any two** :

**4x2=8**

- a) Differences between acute and chronic inflammation.
  - b) Types of necrosis and morphology of caseation necrosis
  - c) Rickets and Osteomalacia
  - d) Chronic suppurative otitis media.
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# OA 040 (Sp & Hg)

**I Semester B.Sc. Examination, Nov./Dec. 2006**  
**(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 aetiology, pathology, clinical features and management of chronic suppurative otitis media. 10  
Add a note on the complications of CSOM.  
OR
- 2) Describe the congenital mal formations of the ear. 10
- II. 3) a) Describe the aetiology, pathology, clinical features and management of otosclerosis. 8  
b) Secretory otitis media. 2  
OR
- 4) Describe the facial nerve paralysis. 10
- III. 5) a) Describe the tumours of jaw and oral cavity. 5  
b) Pharyngitis. 5  
OR
- 6) a) Adeno tonsillitis. 5  
b) Hyper nasality. 5
- IV. 7) a) Describe the congenital disorders of larynx. 5  
b) Acute laryngitis. 5  
OR
- 8) a) Laryngocoele. 5  
b) What are the causes of paralysis of the vocal cord ? 5
- V. 9) Describe the congenital abnormalities of the oesophagus. 10  
OR
- 10) Describe the neoplasms of the oesophagus. 10
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# OA 050 (Sp & Hg)

**I Semester B.Sc. Examination, Nov/Dec. 2006**  
**Speech and Hearing**  
**Linguistics, Phonetics and Language Sciences**

Time : 2 Hours

Total

Marks : 50

*Instruction : Answer all questions.*

- I. 1. Distinguish between human language and animal communication systems. 10
- OR
2. Elucidate the various functions of language. 10
- II 3. a) Explain phonological processes. 7
- b) Distinguish between content words and function words. 3
- OR
4. What are the ways of describing a consonant ? Attempt an articulatory classification of consonants. 10
- III 5. a) How is a vowel different from a consonant ? Attempt an articulatory classification of vowels. 7
- b) Explain with examples the concept of diphthong. 3
- OR
6. a) Describe the speech organs, noting the role they play in speech. 7
- b) Explain with one example the concepts of morph, allomorph and morpheme. 3
- IV 7. a) Name and explain airstream mechanisms for different speech sounds? 7
- b) Write a note on phrase structure rules. 3
- OR
8. a) Elucidate the issues in first language acquisition. 6
- b) What are the families to which languages spoken in India belong ? Name the families and a few member languages. 4

P.T.O.



V 9. In the following data identify the individual morphemes, and their meanings : 10

- |                    |                       |
|--------------------|-----------------------|
| 1. Xaham Xarid     | I will buy            |
| 2. XahiXarid       | you will buy          |
| 3. Xahad Xarid     | he will buy           |
| 4. Xahim Xarid     | we will buy           |
| 5. Xahid Xarid     | you (pl) will buy     |
| 6. Xahand Xarid    | they will buy         |
| 7. Xaridan         | to buy                |
| 8. naxaham Xarid   | I will not buy        |
| 9. naxahi Xarid    | you will not buy      |
| 10. naxahad Xarid  | he will not buy       |
| 11. maxahim Xarid  | we will not buy       |
| 12. naxahid Xarid  | you (pl) will not buy |
| 13. naxahand Xarid | they will not buy     |

Given that Xahad ray means 'he will paint', translate the following forms :

I will paint

They will paint

We will paint

I will not paint

They will not paint

We will not paint

OR

10. a) Explain with one example the concepts of phoneme and allophone. 5

b) Consider the sounds [s] and [j] in the following data and determine whether they are allophones of the same phoneme or represent two different phonemes. -

If allophones, state the complementary distribution (= conditions of their occurrence); if they are phonemes, state the contrast. 5

- |            |            |
|------------|------------|
| 1. son     | hand       |
| 2. s > m   | sack       |
| 3. sosal   | novel      |
| 4. sɛ k    | colour     |
| 5. us      | upper      |
| 6. j ihap  | game       |
| 7. j ilsu  | mistake    |
| 8. j ipsam | thirteen   |
| 9. j inho  | signal     |
| 10. ma j i | delicious. |
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# OA 060(Sp&Hg)

I Semester B.Sc. (Speech & Hearing) Examination, Nov./Dec. 2006 1

## Speech and Hearing Psychology related to Speech and Hearing

Time : 2 Hours

Max. Marks ; 50

- I. 1) Define clinical psychology. Highlight its current status as a specialty in health sciences, with special reference to speech and hearing. 10

OR

- 2) a) Explain the concept of normality and abnormality. 8  
b) Write notes on biological model of mental disorders. 2

- II. 3) a) Describe various types of clinical interview. 7  
b) Write note on clinical observation. 3

OR

- 4) Explain the importance of classification in mental disorders. Explain ICD and DSM systems. 10

- III. 5) a) Explain early motor developments. 3  
b) Describe the Bridges theory of emotional development. 4  
c) Describe the social developments during the preschool and late childhood period. 3

- 6) a) Describe the Piaget's theory of cognitive development during the sensory-motor period. 6  
b) Explain the tests used for the assessment of intelligence. 4

P.T.O.

- IV. 7) a) Define learning. Explain the characteristics of learning. 5  
b) Write short notes on learning curves. 3  
c) Write short notes on schedules of reinforcement. 2

**OR**

- 8) Briefly describe the basic principles of classical conditioning., 10

- V. 9) a) Explain the Neurophysiological correlates of learning. 5  
b) Explain the experiments on reward and motivation. 5

**OR**

- 10) a) Briefly explain the techniques derived from operant conditioning principles that are used in the acquisition and maintenance of skill behaviours. 9  
b) Write a note on Time-out. 1
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