

V Semester B.Sc. Examination, November/December 2005
(Integrated Semester Scheme)
Speech and Hearing
Motor Speech Disorders in Children

Time : 2 Hours

Max. Marks : 50

Instruction.-Answer all questions.

- I. 1) a) Write an essay on the cortical control of speech. 10
- 2) a) What are the sensory receptors involved in speech ? Describe the role of two such sensory receptors. 10
- II. 3. a) What input would you seek from neurologists, physiotherapists and occupational therapists in carrying out speech therapy for children with cerebral palsy ? Justify your answer. 7
- b) Describe, in one sentence each, the secondary conditions that can occur as a consequence of motor speech disorder. 3
- OR
- 4) a) Describe the speech disorders seen in children with dyskinetic type of cerebral palsy. 8
- b) Write a short note on facilitation technique. 2
- III. 5) a) What is pseudohypertrophy ? What is the common name by which it is known ? What speech problems are found in children with this disorder ? 5
- b) What is integrated approach to therapy for developmental apraxia of speech ? What are the general techniques of therapy to facilitate motor learning of speech in children with developmental apraxia of speech ? 5

OR

- 6) a) The therapeutic significance of differentiating the apraxic child from the one with functional articulation disorder is futile. Discuss this statement with for and against comments. 7
- b) Distinguish between verbal and nonverbal apraxia. 3

OE 010 (Sp & Hg)

IV. 7) a) Describe, in detail, any two congenital motor speech disorders. 10

OR

8) a) Describe the neurological basis of mental retardation seen in children with micro and macrocephaly. 6

b) Write a brief note on neurological basis of speech problems seen in Guillain-Barre syndrome. 4

V. 9) a) What user related factors do you assess before recommending AAC ? 10

OR

10) a) Who are the members of the team recommending and implementing AAC system for patients with head injury ? What is the specific role of each member? 8

b) Write a brief note on AAC systems for Parkinson's patients. 2

OE 020 (Sp & Hg)

V Semester B.Sc. Examination, November/December 2005
(Integrated Semester Scheme)
Speech and Hearing
Child Language Disorders

Time: 2 Hours

Max. Marks: 50

Instruction: All questions are compulsory.

- I. 1a) What is the 'Social Interactionist' approach to language learning ? 4
b) How does it account for language acquisition ? 6
- OR
2. a) Who are referred to as 'wolf children' ? 4
b) What is their significance to theories of language acquisition ? 6
- II. 3. List the correlations between brain growth and language development from birth to two years. 10
- OR
4. a) What is the 'pars triangularis' ? 4
b) What is its significance in understanding language-brain relations ? 6
- III. 5. a) What are the language characteristics of SLI ? 6
b) What is their theoretical significance ? 4
- OR
6. What is the relationship between L.D. and L.L.D. ? 10
- IV. 7. a) Define CA, MA and LA. 3
b) What is the significance of the correlational patterns between these three for differential diagnosis of childhood language disorders ? 7
8. Describe an assessment procedure for children with Autism. 10
- V. 9. a) Define 'modelling' and 'expansion' in language therapy. 4
b) Illustrate both with examples. 6
- OR
10. a) What is 'programmed learning'? 4
b) How would you apply it in language therapy ? 6
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OE 030 (Sp & Hg)

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

(Scheme : ISS)

Speech and Hearing

Scientific Enquiry in Speech and Hearing

Time: 2 Hours •

Max. Marks : 50

Instruction : Answer all questions.

1. What is the role of behavioral science in the field of speech and hearing? 10

OR

2. a) Describe problem formulation by giving an example of your choice in the area of speech and hearing. 8

b) Describe null hypothesis. 2

3. a) Describe, in detail, the purposes for which aphasia measures are obtained. 7

b) Write about specificity and sensitivity measures. 3

OR

4. Write an essay, on measurement procedures in speech language pathology and audiology. 10

5. a) What do you understand by data collection ? 3

b) What are the different methods of data collection ? 4

c) Explain in short, two methods of data collection. 3

OR

6. a) Write short notes on sampling and non-sampling errors. 6

b) Write on bias in research. 4

7. a) Calculate measures of Central Tendencies for the following data on age in months of children at detection of hearing impairment : 5

6,7, 8, 8, 12, 12,14,14,15, 15,10, 11, 11,11, 8, 10, 10, 10, 17, 18

b) What is normal probability ? 3

c) What is Kurtosis ? 2.

OR

8. Describe all types of statistical analysis in behavioral science. 10

9. a) Write a note on report writing. 5

b) Write on qualities of research. 5

10. a) What are the components of a research article ? 9

b) What are ethics of research ?

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

(Integrated Semester Scheme)

Speech and Hearing

Organization and Administration of Speech and Hearing Centers

Time: 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I. 1) a) What is meant by therapy, treatment, management and rehabilitation ?
What are the differences between them ? 6
- . b) 'Impavement' and 'Activity' reflect two different schools of thought.
Comment. 4
- 2) a) Differentiate between 'Institutional Based Rehabilitation' and
'Community Based Rehabilitation'. 5
- b) Discuss in detail, the importance of 'Evidence Based practice'. 5
- II. 3) a) Discuss the ISHA code of ethics. 6
- b) Describe the objectives of the RCI Act. 4
- 4) Critically evaluate the welfare measures for persons with disability. 10
- III. 5) a) State the pre requisites to set up a speech and hearing center. 5
- b) Present a hypothetical design for a speech and hearing annexe in a
regular school set-up. 5
- OR*
- 6) a) Differentiate between pay and salary. 4
- b) What are the essential components of cadre and recruitment rules
applicable in a government organizations ? 6
- IV. 7) a) Elaborate on the terms 'RE' and 'BE' with suitable examples. 5
- b) What are the purchase formalities for procurement of equipment in a
government organization ? 5

OR

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OE 040 (Sp & Hg)

- 8) a) Discuss the various methods of record maintenance. 6
- b) Explain the relevance of any two types of leave rules applicable to GO's and NGO's. 4
- V. 9) a) Elaborate on the ethical standards for a clinical training program in speech and hearing. 7
- b) Differentiate between seminar and symposium. How do they correspond with in tour training ? 3
- 10) a) "Marketing is essential for speech and hearing discipline". Comment. 6
- b) Present any two methods of public education that can be applied in rural areas., 4
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OE050 (Sp & Hg)

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

Time : 2 Hours

Max. Marks : 50

Instruction: Answer all the questions.

- I. 1. Write an essay on non-electrical hearing aids. 10
OR
2. Compare programmable with analog hearing aids. 10
- II. 3. Write notes on:
a) Implantable hearing aids. 5
b) Advantages of Induction loop system. 5
OR
4. Describe the components of an FM group hearing system used in a classroom. What are its limitations ? 7+3
- III. 5. Write an essay on the different methods of output limiting employed in hearing aids. 10
OR
6. How does body baffle head shadow effects influence hearing and performance ? 6
Describe the essential components of a CROS hearing aid. 4
- IV. 7. How can acoustic coupler be modified to effect hearing aid output ? 10
OR
8. What precaution would you take before taking ear mould impression ? 4
Describe the step-by-step procedure to take an ear impression using silicone material. 6
- V. 9. a) Describe the different types of couplers used while measuring electro acoustic characteristics. 6
b) How is the hearing aid response measured in a coupler different from that in a real ear ? 4
OR
10. Explain RTG position. 10
How is it obtained as per the BIS standard ?

OE 060 (Sp. & Hg.)

V Semester B.Sc. Examination, November/December 2005
(Integrated Semester Scheme)
Speech and Hearing
Paediatric Audiology

Time: 2 Hours

Max. Marks: 50

Instruction : Answer all the questions.

- I. 1. Universal hearing screening programs are the need of the day. Discuss with reference to Indian context. 10
OR
2. The high risk register recommended in the 2000 position statement of the Joint Committee on infant screening can be directly implemented in India. Critically evaluate the statement. 10
- II. 3. Compare and contrast the auditory cradle test and the accelerometer recording system. 10
OR
4. Screening ABR is too time consuming to be considered an efficient technique for early identification of hearing loss. Discuss. 10
- III. 5. a) Describe the development of the external ear. 8
b) State how presence of an external ear deformity can help predict the presence of a developmental problem in the middle ear. 2
OR
6. How can you apply your knowledge of development of auditory responses in interpreting the results of audiological tests ? 10
- IV. 7. a) Describe 'Visual Reinforcement Audiometry'¹. 8
b) Name different tests that utilize the concept of 'Visual Reinforcement Audiometry'. 2
OR
8. a) What measures should be taken while testing the hearing of a developmentally delayed child ? 8
b) Name the team members who should be involved while testing the hearing of a developmentally delayed child. 2
- V 9. Write notes on :
a) BC Speech audiometry 5
b) The ANT test. 5
OR
10. a) Speech identification tests cannot be carried out in children without the availability of an SRT test. Comment. 5
b) What is the need for developing speech tests for children as young as two years ? 5
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