

OB010(Sp&Hg)

II Semester B.Sc. Examination, April/May 2007

(Integrated Semester Scheme)

Speech and Hearing

Speech Diagnostics and Therapeutics

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

1. Define diagnosis. Discuss on factors affecting diagnostic process. 10

OR

2. Highlight the difference between :

a) Case history and clinical interview 5

b) Proforma and questionnaire. 5

3. Describe the speech and language processing model of Nation and Avam. 10

OR

4. a) Write the characteristics of a diagnostic clinician. 5

b) Write a note on instrumental diagnosis. 5

5. Write the speech and language therapy procedure for a 3 year old child with congenital hearing impairment. 10

OR

6. Differentiate between :

a) Individual and group therapy 5

b) Formal and informal speech therapy. 5

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7. Define reinforcement .Write the different types of reinforcement and their role in the treatment of children with delayed speech and language. 10

OR

8. Outline the speech therapy techniques for a child with misarticulation. Justify - your procedure. 10

9. Describe briefly the use of :

- a) Pretherapy report 4
- b) Therapy report 4
- c) Referral report. 2

OR

10. Write a note on :

- a) Characterstic of a clinician 6
 - b) Diagnostic report. 4
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OB 020 (Sp&Hg)

II Semester B.Sc. Examination, April/May 2007

(Integrated Semester Scheme)

Speech and Hearing

Audiological Evaluation

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I. 1) Discuss the significance of case history in carrying out and interpreting pure-tone audiometry. 10
- OR
- 2) a) How are audiometers classified ? 6
b) Write a note on currently available bone vibrators. 4
- II. 3) Explain the different subjective methods to calibrate the output of a pure-tone audiometer through headphones. 10
- OR
- 4) a) Describe the SLM settings used for the calibration of intensity output of a pure-tone audiometer. 6
b) Write a note on frequency calibration of a pure-tone audiometer. 4
- III. 5) a) Describe the couplers used for calibration of audiometers. 6
b) List the technical specifications of Eartone 3A insert phone. 4
- OR
- 6) Describe the types of earphones and ear cushions used for pure-tone audiometry. 10
- IV. 7) Discuss the factors to be considered while calculating minimum effective masking level. 10
- OR
- 8) a) Justify the factors to be considered to calculating minimum effective masking level. 6
b) Write a note on BBN. 4
- V. 9) Discuss about different types of speech materials used for speech audiometry. 10
- OR
- 10) a) Write a note on SDT. 6
b) List tests for speech audiometry available in Indian languages. 4
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OB030(Sp&Hg)

II Semester B.Sc. Examination, April/May 2007 (Integrated Semester Scheme) Speech and Hearing

Time : 2 Hours

Max. Marks : 50

Genetics in Speech and Hearing 20

Answer **all** questions. All questions carry **equal** marks.

1. Describe the fine structure of human chromosomes. What are artificial chromosomes ? 5

OR

Discuss in detail the various staining methods available for chromosome preparation. 5

2. Discuss the important events in an interphase. Write briefly on some of the sperm abnormalities. 5

O R

Define a karyotype. Using "Shorthand" symbols give karyotype for the following syndromes : 5

- a) Males with Klinefelter syndrome have an extra X chromosome.
- b) Female with Turner syndrome have one X chromosome missing.

3. What is the importance of pedigree analysis ? Illustrate the symbols most commonly used by geneticists. 5

OR

What are the 3 main domains of impairment that characterize Autism ? Discuss the genetic basis of autism. 5

4. Define Genetic counselling. Discuss the genetic basis of any one type of Hereditary hearing impairment. 5

OR

What is SPEH 1 loci ? Give the important genetic findings reported with respect to specific language impairment. 5

P.T.O.

Pediatrics in Speech and Hearing

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Answer **all** questions.

- I. 1) a) Describe the growth during adolescent period. 5
b) Describe the growth and mile stones achieved by a normal one and half year old child. 5

OR

- 2) a) Enumerate the Risk factors for early identification of hearing impairment. 5
b) Describe the clinical manifestations of vitamin A deficiency and its management. 5
- II. 3) Write a short note on childhood autism. 5

OR

- 4) Classify Mendellian disorders with suitable examples. 5

Epidemiology in Speech and Hearing

15

Illustrate your answer with figures/diagrams **wherever** necessary.

1. Define epidemiology as applicable to speech and hearing professionals. List at least 6 uses of epidemiology. 5

Describe briefly how you would evaluate a school programme for hearing impaired children. 5

2. Write short notes on **(any two)** : (3x2=6)
a) Screening
b) Registry
c) Cross-sectional study
d) Survey.

3. Compare and contrast (2x2=4)
a) Case control study and court study
b) Prevalence and incidence.
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OB 040 (Sp & Hg)

II Semester B.Sc. Examination, April/May 2007
(Int. Semester Scheme)
Speech and Hearing
Neurology

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all the Units.

UNIT-I

1. Describe the origin, course and functions of the vestibulocochlear nerve. 10

OR

2. Write short notes on :

a) Internal carotid artery. 4

b) Action potential.

c) Spinothalamic tract. 3

UNIT - II

3. Classify and enumerate the causes of Hydrocephalus and describe the clinical features of hydrocephalus. 10

OR

4. Write short notes on :

Syringomyelia. 3

Spina bifida. 3

Arnold Chiari Malformation. 4

UNIT-III

5. Describe the aetiology, pathogenesis, clinical features and management of Bacterial meningitis and add a note on the causes of meningitis. 10

OR

P.T.O.

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6. Describe the aetiopathogenesis, clinical features and complications of viral Encephalitis. 10

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7. Write short notes on :

- a) **Intracerebral bleed.** 4
b) Phenyl-Ketonuria. 3
c) Niacin Deficiency. 3

OR

8. a) Chronic subdural haematoma. 4
b) Wilson's Disease. 3
c) Wernickis-Korsakoff' s Syndrome. 3

UNIT-V,

9. Write short notes on :

- a) Glioma 5
b) Neurofibromatosis. 5

OR

10. a) Meningioma 5
b) Metastatic tumours of CNS. 5
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