

25521



**II Semester B.Sc. (Sp. and Hg.) Examination, May 2012**  
**(Scheme : ISS)**  
**Speech and Hearing**  
**Speech Diagnostics and Therapeutics**

Time : 2 Hours

Max. Marks : 50

- I. 1) Highlight the importance of case history in speech diagnostics. 10  
OR
- 2) Write short notes on : 5  
a) Proforma 5  
b) Provisional diagnosis.
- II. 3) Describe the diagnostic model proposed by Bloom and Lahey (1978). 10  
OR
- 4) Write short notes on **any two** : (5+5=10)  
a) Diagnosis by treatment  
b) Observation  
c) Scope of the field of speech language pathology.
- III. 5) Describe the general principles of speech-language therapy. 10  
OR
- 6) What are the prerequisites to start a speech therapy set-up ? 10
- IV. 7) Write short notes on : (5+5=10)  
a) Demonstration therapy  
b) Group therapy  
OR
- 8) Describe the specific speech and language stimulation techniques used to enrich the communication skills of persons with speech and language disorders. 10
- V. 9) Describe the code of ethics for speech language pathologists. 10  
OR
- 10) Write short notes on **any two** : (5+5=10)  
a) Counselling  
b) Reports  
c) Characteristics of a 'good' speech and language clinician.
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**II Semester B.Sc. (Speech and Hearing) Examination, May 2012**  
**(Scheme : ISS)**  
**Audiological Evaluation**

Time : 2 Hours

Max. Marks : 50

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

- I. 1) Describe the different factors that affect estimation of air conduction and bone conduction thresholds. 10

OR

- 2) a) What is the need to classify audiometers ? 5  
b) Describe the classification of audiometers proposed by an one international standard. 5

- II. 3) a) What are RET SPL values ? 2  
b) What are the factors that affect RET SPL values ? 4  
c) Draw a block diagram of the set-up required for intensity calibration of head phones. 4

OR

- 4) Explain any two real ear methods to calibrate the output of head phones. 10

- III. 5) Write short notes on :  
a) NBS 9A coupler  
b) High frequency head phones. (5+5=10)

OR

- 6) What are the technical factors that you would consider while selecting transducers for an audiometer ? Write a short note on different types of couplers. (5+5=10)

P.T.O.



- IV. 7) Write an essay on different types of stimuli that can be used in masking and their effects. 10
- OR
- 8) Explain the plateau procedure to obtain masked thresholds. 10
- V. 9) What are the different types of stimuli that can be used in speech audiometry? Explain the advantages and disadvantages of each. 10
- OR
- 10) Write short notes on : (5+5=10)
- a) Speech identification scores
  - b) Factors affecting SRT.
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II Semester B.Sc. (Sp. and Hg.) Examination, May 2012  
Genetics, Paediatrics and Epidemiology in Speech and Hearing

Time : 2 Hours

Max. Marks : 50

**Instruction : Answer all questions.**

**Genetics in speech and hearing :**

Max. Marks : 20

- I. 1) Differentiate mitosis and meiosis with salient features. 5  
OR  
2) Write on human karyotype and its importance. 5
- II. 3) Provide a concise account on the genetic component of MR and dyslexia. 5  
OR  
4) Write short notes on : 5  
a) Autism  
b) Stuttering.
- III. 5) Explain any two conventional techniques employed in the field of genetics. 5  
OR  
6) Discuss the applications of molecular tools in genetics. 5
- IV. 7) a) Highlight the components of genetic counselling.  $2\frac{1}{2}$   
b) What are environmental syndromes ? Explain.  $2\frac{1}{2}$   
OR  
8) a) Explain the genetics of the hearing loss.  $2\frac{1}{2}$   
b) Provide the chromosomal constitution of Down and Klinefelter syndromes.  $2\frac{1}{2}$

P.T.O.



### Paediatrics in Speech and Hearing :

Max. Marks : 15

- I. 1) Define Growth and Development. Briefly discuss the various methods to assess growth of a child. 10
- OR
- 2) Enumerate childhood disabilities. Briefly discuss early detection of disabilities and treatment for developmental delay. 10
- II. 3) Write short notes on :
- a) Vitamin A deficiency 3
- b) Gene Therapy 2
- OR
- a) Zinc deficiency 3
- b) Non-traditional modes of inheritance. 2

### Epidemiology in Speech and Hearing :

Max. Marks : 15

- I. 1) Described the historical development of speech and hearing discipline. 5
- OR
- 2) a) Define the terms incidence and prevalence. 2
- b) Briefly describe the incidence and prevalence of various types of hearing loss among children in India. 3
- II. 3) Describe the procedure involved in a questionnaire survey. 5
- OR
- 4) Enumerate the risk factors for various communication disorders and hearing loss. 5
- III. 5) What is screening for disease ? How do you plan a screening program for hearing impairment among pre-school children ? 5
- OR
- 6) What is Epidemiology ? Enumerate objectives of Epidemiology. 5



**II Semester B.Sc. (Sp and Hg) Examination, May 2012**  
**(Scheme : ISS)**  
**Neurology**  
**Speech and Hearing**

Time : 2 Hours

Max. Marks : 50

**Instruction : Answer all questions.**

- I. 1) Describe the anatomy and function of the facial nerve . 10  
 OR  
 2) Write short notes on :  
 a) Neuromuscular. 3  
 b) Blood supply to the cortex. 4  
 c) Pyramidal tracts. 3
- II. 3) Describe the aetiopathogenesis of hydrocephalus, diagnostic workup and clinical features including complications of the same. 10  
 OR  
 4) Write short notes on :  
 a) Clinical features of spinal cord defects. 5  
 b) Syringomyelia and syringobulbia. 5
- III. 5) What is stroke ? What are the different types of stroke ? Describe the clinical features of acute ischemic stroke, the various causes of acute ischemic stroke and risk factors of acute ischemic stroke. 10  
 OR  
 6) Write notes on the signs and symptoms of meningitis and encephalitis. (5+5)
- IV. 7) Mention the various degrees of traumatic brain injury. Describe the clinical features, of acute extradural hemorrhage. 10  
 OR  
 8) Write short notes on :  
 a) Alzheimer's Dementia 3  
 b) Acute Demyelinating Encephalomyelitis 4  
 c) Clinical features of Wernickis encephalopathy. 3



V. 9) Write short notes on :

a) Metastasis

2

b) Nerve sheath tumours

4

c) Cerebello pontine Angle tumors.

4

OR

10) Write short notes on :

a) Von Recklinghausen's disease

4

b) Structures and function of peripheral nervous system.

6

3  
4  
3

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10

5  
5

10

(2+5)

10

3  
4  
3

P.T.O.