

IV Semester M.Sc. **Audiology Examination, May/June 2006**
(Scheme: Semester)

Audiology

Implantable Devices for the Hearing Impaired

Time: 3 Hours

Max. Marks: 80

Instruction: Answer all questions.

- I. I. How are BAHA and middle ear implants different from other hearing " devices ? 16
- OR**
2. a) Discuss the criteria use in the selection of candidates for implantable hearing aids. 10
- b) What benefits accrue from middle ear implant ? 6
- II. 3. a) In what way do different commercially available cochlear implants differ from each other ? 12
- b) Write a note on ADRO. 4
- OR**
4. Write an essay on biological safety in cochlear implants. 16
- III. 5. How are intensity and frequency of acoustic stimuli perceived with cochlear implants. 16
6. Compare different speech processing strategies used in cochlear implants. 16
- IV. 7. a) What is the role of an audiologist and the parent, of a child with cochlear implant in rehabilitation ? 6
- b) Which is the best technique for rehabilitation of a child with cochlear implant in your opinion ? Explain the technique and justify your choice. 10
- OR**

8. Discuss on the technique of rehabilitation of an adult cochlear implantee, Are the techniques for rehabilitation of an adult cochlear implantee same as those for children ? 16
- V, 9. a) When do you advice a brain stem implant for an individual with hearing impairment ? , 6
- b) What investigations are carried out to select candidates for brain stem implants. Describe in brief, the investigations done. 10
- OR
10. What are the requirements of an individual with severe-to-profound hearing impairment. Are these requirements met with the presently available implantable hearing devices ? If no, then what research developments we should aim for ? 16

IV Semester **M.Sc.** Examination, May/June **2006**
(Semester Scheme)
Audiology
Seminars in Rehabitative Audiology

Time : 3 Hours

Max. Marks ; 80

Instructions : 1) Answer all questions.
2) All questions carry equal marks.

- I. 1) a) What are the advantages and disadvantages of analog hearing aids ? 8
b) Discuss the current Indian scenario with reference to digital hearing aids and their dispensing facilities. 8
- OR
- 2) a) Elaborate on the basic characteristics of compressions used in hearing aids. 8
b) What are the advantages of incomparating compresson in hearing aids ? Discuss in detail. 8
- II. 3) a) What are the physical and electro acoustic characteristics covered under BIS specification for body level hearing aids ? 8
b) How are the body level hearing aids classified as per BIS standards ? 8
- OR
- 4) a) Describe the dfferent couplers/ear stimulations used in evaluating hearing aids. 8
b) Discuss the factors which could affect the electro acoustic characteristics of hearing aids while they are being evaluated. 8
- III. 5) a) What is a Bone-anchored hearing aid ? 6
b) Who are the candidates for the same ? 4
c) Discuss the advantages and diadvantages of BAHA. 6
- OR
- 6) a) Discuss the points you would discuss while counselling the caregivers about need to use binaural hearing aids, for a preschooler. 8
b) What type of earmold would you recommend for such a child ? Why ? 8

P.T.O.

- IV. 7) a) Describe Auditory verbal approach. 6
b) Discuss its relevance and applicability for children with hearing impairment in the Indian context. 10

OR

- 8) a) Discuss the role of ALDS in improving the quality of life in geriatric clients. 8
b) Discuss the critical issues involved in deciding earmolds for the geriatric clients. 8

- V 9) a) What are the auditory and otological conditions associated with tinnitus ? 6
b) Discuss the candidacy for tinnitus maskers. 6
c) What are the advantages and disadvantages of tinnitus maskers ? 4

OR

- 10) Discuss the points you would cover while doing genetic counselling. Justify your choices. 16

AD 010

IV Semester M.Sc. (Audiology) Examination, May/June 2006
(Semester Scheme)

Audiology

Assessment and Management of Central Auditory Processing Disorders

Time: 3 Hours

Max, Marks: 80

Instruction: Answer all questions.

I.1) Discuss the subprofiles of auditory processing deficits and the processes that are affected in each of the subprofiles. 16

OR

2) Discuss the theoretical basis for localization, lateralization and dichotic listening. 16

II. 3) A 7-year old boy with learning disability showed poor performance on speech-in-noise test, but normal scores on masking level difference. What is your interpretation ? What further tests would you administer to rule out an auditory processing disorder in this child ? 16

OR

4) Discuss the effect of age on the following tests : 16

- a) Binaural fusion test
- b) Dichotic digit test
- c) Gap detection test
- d) Duration pattern test

III. 5) Describe the objective tests that have been used to evaluate auditory plasticity and list the advantages and limitations of the same. 16

6) Write a note on the usefulness of LLR in the evaluation of auditory processing disorders. 16

P.T.O.

- IV, 7) Describe the effect of brainstem and cortical pathology on temporal processing. 16
- 8) Discuss the audiologic findings in a subject with interhemispheric lesion. 16
- V. 9) Discuss the importance of metalinguistic and metacognitive training in the rehabilitation of a child with auditory processing disorder. 16

OR

10) Write a note on the usefulness of the following in a 6-year old child with auditory processing disorder.

- a) Phoneme training. 8
- b) Prosody training. 8