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M-9912

Sl. No. 0050

Total No. of Pages : 2

**III Semester II year M.Sc. Examination, December - 2019**

**(Scheme : CBCS)**

**AUDIOLOGY**

**Implantable Devices for Individuals with Hearing Impairment**

**Time : 2 Hours**

**Max. Marks : 50**

**Instruction : Answer all questions.**

**I. 1. How does the candidacy for BAHA and middle ear implants differ? [10]**

OR

2. Differentiate piezoelectric and electromagnetic devices, highlighting their advantages and disadvantages. [10]

**II. 3. Write notes on measures and tests that should be done to establish candidacy of clients for cochlear implants in those aged below 2 year of age. [15]**

OR

4. Parents want their child with hearing impairment to undergo bilateral cochlear implant surgery. On what basis will you advise them to undergo unilateral, bilateral, bimodal or electroacoustic cochlear implants? [15]

**III. 5. What changes should be done in routine map parameters in the following? [3 × 5 = 15]**

- a) A case within 8<sup>th</sup> nerve
- b) A case with poor loudness growth
- c) At the time of switch-on

OR

6. Describe ways in which the most comfortable level or the comfortable level can be set in children. [15]

**P.T.O.**

- IV. 7. On what basis will you decide whether a client should be recommended a cochlear implant or a brainstem implant. [10]

OR

8. How would the mapping for brainstem implants differ from that of cochlear implants? [10]



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**III Semester M.Sc. II<sup>nd</sup> Year (Audiology) Examination,  
December - 2019  
(Scheme : CBCS)  
AUDIOLOGY  
Speech Perception**

Time : 2 Hours

Max. Marks : 50

*Instruction : Answer all questions.*

1. Describe the coding of different acoustic cues of speech in auditory nerve and cochlear nucleus. [15]

OR

2. Explain with relevant literature the different factors that contribute to speaker and rate normalization of vowels. [15]

3. Dynamic cues play crucial role in the perception of stop consonants. Critically evaluate the statement. [15]

OR

4. Describe the cues that help in perceiving nasals, fricatives and affricates. [15]

5. (a) What are the different methods to synthesize speech? [5]  
(b) Explain any one technique along with its advantages and disadvantages. [5]

OR

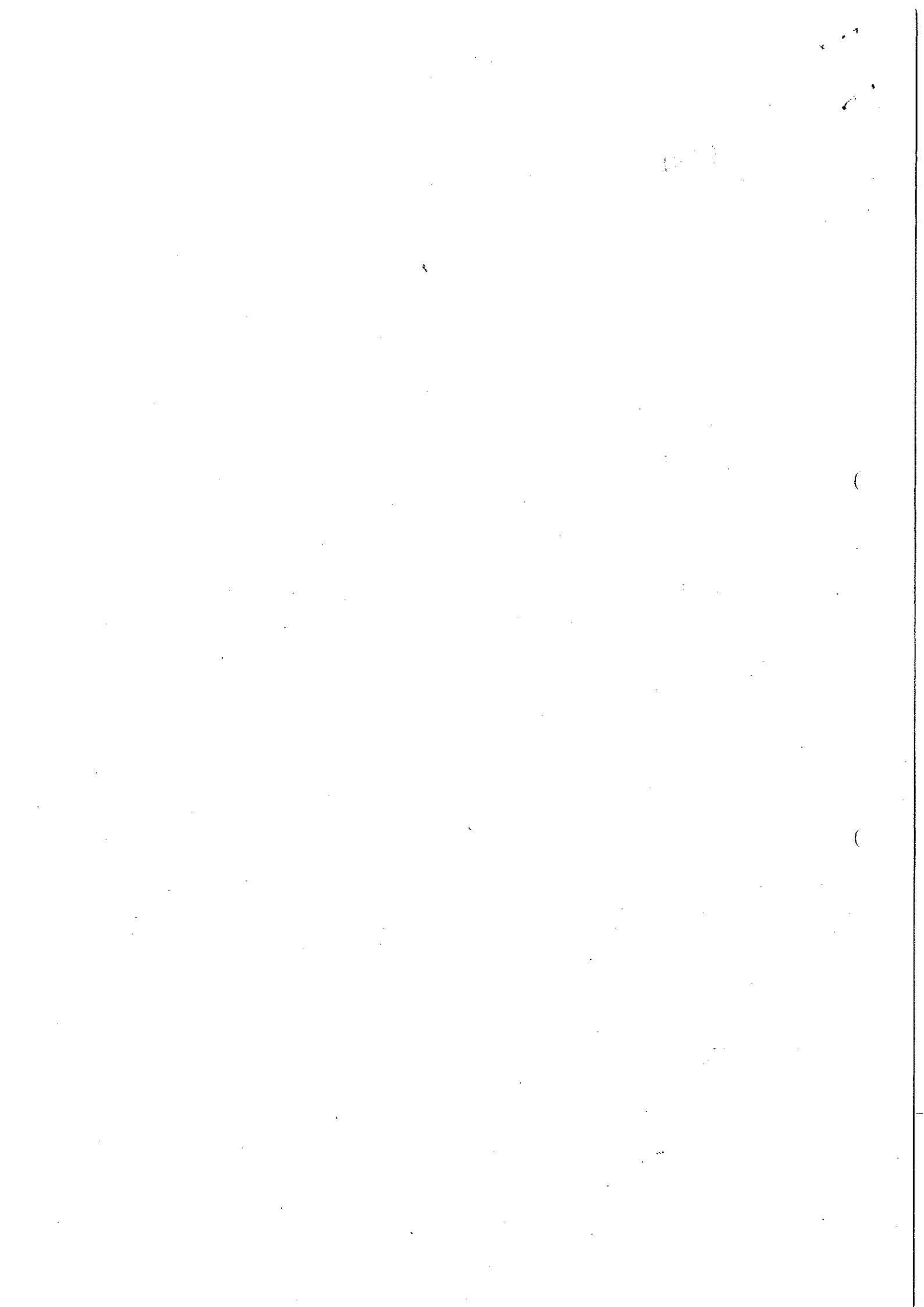
6. Explain the acoustical cues that help in the perception of suprasegmental aspects of speech. [10]

7. What is the role of short term memory in the perception of vowels and consonants. [10]

OR

8. Explain different methods to study infant speech perception along with its advantages and disadvantages. [10]





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**III Semester M.Sc. II<sup>nd</sup> Year Examination, December - 2019**

**(Scheme : CBCS)**

**AUDIOLOGY**

**Seminars in Assessment of Hearing Impairment**

Time : 2 Hours

Max. Marks : 50

*Instruction : Answer all questions.*

1. Comment on the role of immittance in the differential diagnosis of various conductive pathologies. [10]

OR

2. Discuss the correlation of audiological findings to its histopathological findings in disorders of ossicular chain. [10]
3. Describe the audiological findings and its histopathological correlates in individuals with sudden hearing loss. [15]

OR

4. Describe your choice of test battery to diagnose a case with acoustic neuroma. Justify your choice of tests. [15]
5. Describe the tests used in the assessment of hyperacusis and discuss its implication in the rehabilitation. [15]

OR

*P.T.O.*

6. Write short notes on : [15]
- a) Theories of Tinnitus.
  - b) Audiological assessment of a child with hearing impairment and mental retardation.
  - c) Conditions causing vestibular problems.
7. What is the importance of genetic evaluation in the individuals with hearing loss? [10]

OR

8. Write short notes on : [10]
- a) CT scan in the assessment of hearing loss.
  - b) Aminocentesis.



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**III Semester M.Sc. II<sup>nd</sup> Year (Audiology) Examination,  
December - 2019  
(Scheme : CBCS)  
AUDIOLOGY**

**Seminars in Rehabilitative Audiology**

**Time : 2 Hours**

**Max. Marks : 50**

**Instruction : Answer all questions.**

**I. 1** Write an essay on the use of wireless technology in hearing devices. [15]

OR

**2 a)** Write an essay on the electro-acoustic measurements of digital hearing aids. [8]

**b)** Write a note on variables that affect electro acoustic measurements. [7]

**II. 3** Elaborate on the verification of advanced features in hearing aid fitting. [15]

OR

**4** Elaborate on the following : [8 + 7]

**a)** Verification of FM devices.

**b)** Pre-selection factors for hearing assistance technology.

**III. 5 a)** How would you counsel a care given on getting one year old child to use hearing aids? [5]

**b)** How would you counsel an adult hearing aid user on adjusting to the use of amplification device? [5]

OR

**P.T.O.**

- 6 Highlight the importance of various outcome measures to determine the utility of hearing devices. [10]

- IV. 7 With suitable illustrations, elaborate on the application of neurophysiological model in the management of tinnitus. [10]

OR

- 8 How does rehabilitation differ for a child with deaf-blindness from that for a child with hearing impairment alone? [10]





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**III Semester M.Sc. II<sup>nd</sup> Year Examination, December - 2019**  
**(Semester Scheme CBCS)**

**AUDIOLOGY**

**Vestibular System : Assessment & Management**

Time : 2 Hours

Max. Marks : 50

*Instruction : Answer all questions.*

- I. 1) Using a neat labelled diagram, describe the anatomical frame work of the vestibuloocular reflex (VOR) pathway arising in the lateral semicircular canal. [10]

OR

- 2) a) Describe the functioning of any two visual sub-systems concerned with balance. [5]  
b) Describe various strategies used for balance sustenance during perturbations of various degrees and various surfaces. [5]

- II. 3) a) Describe the procedure and interpretation of glycerol test. [5]  
b) Enlist various audio-vestibular tests that have been found useful when used in conjunction with the glycerol test. [5]  
c) Write a note on 'Dizziness Handicap Inventory'. [5]

OR

- 4) Using evidences from the published works, comment on the utility of VEMPs in diagnosis and differential diagnosis of BPPV. [15]

- III. 5) a) Describe the findings of various vestibular tests in cases of Diabetes Mellitus. [5]  
b) Compare and contrast BPPV and vestibular paroxysmia using pathophysiology, symptomatology and assessment outcomes. [5]

*P.T.O.*

- c) Compare and contrast menieres' disease and vestibular migraine using of case history, pathophysiology and test outcomes. [5]

OR

- 6) a) How does degeneration at various levels of the vestibular pathway affect the outcomes of vestibular assessment? Describe. [10]  
b) Write a note on the commonly encountered vestibular disorders in children. [5]

- IV. 7) a) Describe various medical management options for a case with Menieres disease. [5]  
b) Write a short note on Brandt-Daroff exercises and their utility. [3]  
c) Enlist the non-medical management options for a case with vestibular migraine. [2]

OR

- 8) Describe the Cowthron-Cookery exercises for a case with labyrinthitis. [10]

