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 M-9913

Sl. No. 0021

Total No. of Pages : 1

**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

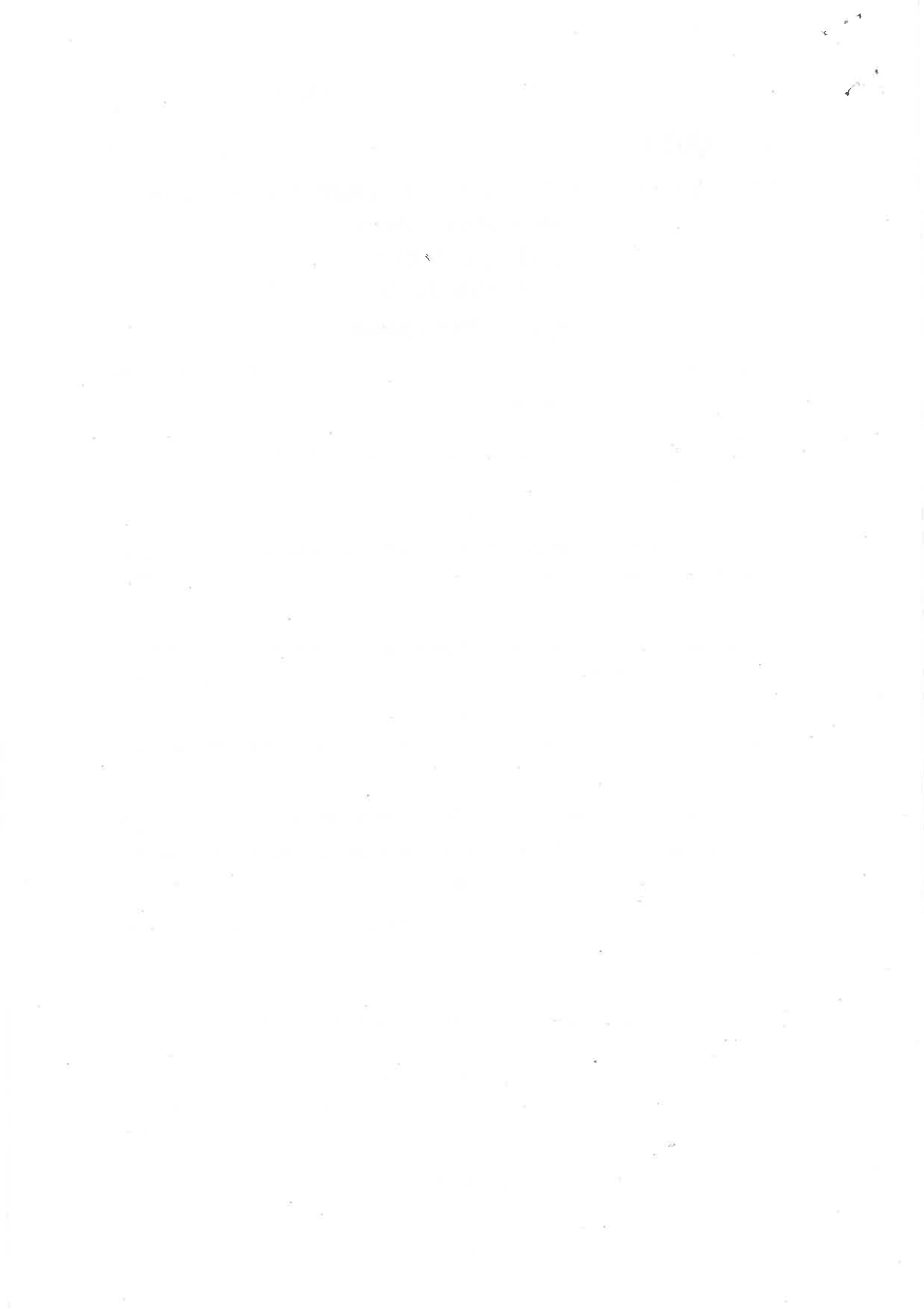
6. Explain the acoustical cues that help in the perception of suprasegmental aspects of speech. [10]

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]





Sl. No. **0041**

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 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]

