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Sl.No. 0042

Total No. of Pages : 2

**III Semester M.Sc.(Audiology) Examination,
March - 2022**

(Scheme : CBCS)

SPEECH & HEARING

Implantable Devices for Individuals with Hearing Impairment

Time : 2 Hours

Max. Marks : 50

Instructions: Answer all questions.

I. **Q1) a)** Write notes on the audiological evaluations that are necessary to select a candidate for BAHA. **[5]**

b) Explain the fitting procedure of BAHA. **[5]**

OR

Q2) On What basis will you decide whether an individual is a candidate for a BAHA or a middle ear implant. **[10]**

II. **Q3)** Describe about fitting of hybrid cochlear implants. **[15]**

OR

Q4) Describe about recommending cochlear implants for different malformations of the cochlear and 8th nerve. **[15]**

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III. Q5) How will map parameters be different in those with

[3×5=15]

- a) Hypoplastic 8th nerve
- b) Facial nerve twitching
- c) Partial insertion of electrodes

OR

Q6) List ways in which the most comfortable level or the comfortable level can be set in a cochlear implantee. [5]

Which technique do you think is the best? Justify your choice. [10]

IV. Q7) Briefly describe brain-stem implants, emphasizing on its benefits. [10]

OR

Q8) When would midbrain implants be recommended for an individual with hearing loss? [10]

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**III Semester M.Sc.(Audiology) Examination,
March - 2022**

(Scheme : CBCS)

SPEECH & HEARING

Seminars in Rehabilitative Audiology

Time : 2 Hours

Max. Marks : 50

Instruction: All questions are compulsory.

- I. **Q1)** Describe the electroacoustic measurement of non-linear digital hearing aids and the latest norms specified by Indian standards on hearing aids electroacoustic measurements. **[10]**

OR

- Q2)** a) Write the applications of Wireless technology in hearing aids. **[5]**
b) How would you control electromagnetic interference in hearing aids? **[5]**

- II. **Q3)** a) Critically evaluate the prescriptive methods of hearing aid selection of a non-linear digital hearing aid. **[10]**
b) Write the role of ALLR in hearing aid fitting verification. **[5]**

OR

- Q4)** Enumerate the hearing aid fitting considerations for the following disorders.

- a) High frequency hearing loss **[5]**

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- b) auditory dysynchrony [5]
- c) unilateral hearing loss [5]

III. Q5) In detail explain the counselling to be done during hearing and fitting. [15]

OR

Q6) How would you optimise the hearing aid setting when a patient comes with the complaint of

- a) Own voice sounding louder [5]
- b) Sequealing sound [5]
- c) inability to understand speech of unfamiliar speakers. [5]

IV. Q7) Write an essay on the audiological management of tianitus patients using sound generators. [10]

OR

Q8) How is the hearing fitting procedure different for individuals with deaf-blindness and neuro-motor problems when compared to those with only hearing impairment. [10]

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**III Semester M.Sc. (Audiology) Examination,
March - 2022**

**(Scheme : CBCS)
SPEECH & HEARING
Speech Perception**

Time : 2 Hours

Max. Marks : 50

Instruction: Answer all questions.

- I. **Q1)** What is categorical perception? Provide the evidence of categorical perception of voicing and plane of articulation. **[15]**
OR
Q2) Describe in detail how the concept of 'invariant cue' is addressed in different speech perception theories. **[15]**
- II. **Q3)** What are the important spectral and temporal cues for the perception of vowels. **[15]**
OR
Q4) Discuss the important cues for the perception of **[15]**
i) Voicing of stop consonants
ii) Nasals
iii) Fricatives and offricates.
- III. **Q5)** List various methods of synthesis of speech. Explain any two. **[10]**
OR
Q6) What are the different cues that help in the perception of stop consonants. **[10]**
- IV. **Q7)** List various methods that can be used to study the perception of infants. Describe any two of them. **[10]**
OR
Q8) Explain in detail how consonants and vowels are perceived in infants. **[10]**

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III Semester M.Sc.(Audiology) Examination, March - 2022

(Scheme : CBCS)

SPEECH & HEARING

Vestibular System : Assessment and Management

Time : 2 Hours

Max. Marks : 50

Instruction: All questions are compulsory. Draw diagram wherever necessary.

Q1) With neat diagram, explain the physiology of semicircular canals. [10]

OR

Q2) What is vestibuloocular reflex? With neat diagram explain the vestibuloocular reflex pathway. [10]

Q3) What is the utility of questioners in screening vestibular problems? [10]

OR

Q4) What is butterfly diagram? How will you identify various vestibular pathologies based on the results on butterfly diagram. [10]

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Q5) Write short notes on:

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- a) Meniere's disease
- b) Vestibular labyrinthitis
- c) Perilymphatic fistula

OR

Q6) Write short notes on:

[3×5=15]

- a) CP Angle tumor
- b) Cerebellar pathologies
- c) Vertebro-basilar insufficiency

Q7) Differentiate between the medical and behavioral management of vestibular disorders. Write and explain the conditions where medical management is essential.

[15]

OR

Q8) Write short notes on the procedure involved in the administration of

[15]

- a) Epley maneuver
- b) Dix-Hallpike maneuver
- c) Semont maneuver

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**III Semester M.Sc.(Audiology) Examination,
March - 2022
(Scheme : CBCS)
SPEECH & HEARING
Seminars in Assessment of Hearing Impairment**

Time : 2 Hours

Max. Marks : 50

Instruction: Answer all the questions.

I. Q1) Describe the various audiological test findings and its relation to histopathological findings in disorders of external auditory canal. [15]

OR

Q2) Describe the various audiological findings and its relation to histopathological findings in various middle ear disorders. [15]

II. Q3) Explain various audiological findings and its relation with histopathological findings in various demyelinating disorders. [15]

OR

Q4) Explain the various audiological findings & its relations with histopathological findings in various CP angle tumors. [15]

III. Q5) Write an essay on hyperacusis its assessment. [10]

OR

Q6) Write in detail about the tinnitus, various conditions in which it occurs, the different test findings and its implications in rehabilitation. [10]

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IV. Q7) Describe fMRI and its role in study in speech perception in individuals with various auditory disorders. [10]

OR

Q8) Write the importance of X-ray, CT scan and MRI in detection of various auditory disorders. [10]

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