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MP-570

Sl. No. 0044

Total No. of Pages : 2

II Semester M.Sc. Examination, September/October - 2023

(Scheme : CBCS)

AUDIOLOGY

Psychophysics of Audition

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all the questions.

- I. 1) Explain in detail the various spectral and temporal cues for object perception. [15]

OR

- 2) Describe in detail the auditory pattern perception in individuals with normal hearing and those with hearing impairment. [15]

- II. 3) a) What are the different cues for localization of pure tones? [10]
b) Write a short note on time-intensity trading of complex tones? [5]

OR

- 4) Explain the various cues used in localization of complex tones. [15]

- III. 5) a) Write a short note on binaural interference. [5]
b) Describe the importance of Masking Level Difference (MLD) for complex signals. [5]

OR

- 6) Explain in detail the various models of binaural hearing. [10]

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- IV. 7) a) What are the different methods of studying adaptation? [8]
b) Write a short note on binaural adaptation. [2]

OR

- 8) a) Compare and contrast adaptation and fatigue. [6]
b) What are the various factors that affect measurement of adaptation? [4]

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Sl. No. 0047

Total No. of Pages : 2

II Semester M.Sc. Examination, September/October - 2023

(Scheme : CBCS)

AUDIOLOGY

Electrophysiological Assessment of the Auditory System

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

- I. 1) Describe how EEG averaging helps in improving the SNR. Give details of the different types of averaging and their significance. [10]

OR

- 2) Write short notes on : [2 × 5 = 10]

- a) Dipole orientation & scalp distribution
b) Classification of AEPs

- II. 3) Describe the applications of ABR other than the estimation of hearing sensitivity. [15]

OR

- 4) Write short notes on :

- a) Methods of AEPs to detect cochlear hydrops and their sensitivity. [10]
b) Frequency-specific hearing threshold estimation using ABR. [5]

- III. 5) Write notes on :

- a) Advantages and challenges of using ALLR for hearing threshold estimation. [10]
b) Applications of VEMP & the key response measures. [5]

P.T.O.

OR

6) Write notes on :

a) Methods of response analysis in ASSR. [5]

b) Methods to minimize the interference of artifacts in ALLR. [10]

IV. 7) Describe the various stimuli and the stimulus paradigm for recording MMN & N400. [10]

OR

8) Describe the special techniques used in the acquisition & analysis of endogenous potentials. [10]

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MP - 572

Sl.No.

Total No. of Pages : 1

II Semester M.Sc. Examination, September/October - 2023

(Scheme : CBCS)

AUDIOLOGY

Neurophysiology of Hearing

Time : 2 Hours

Max. Marks : 50

Instruction: *Answer all the questions.*

I. 1. Describe the coding of intensity and frequency in auditory nerve. [15]

OR

2. Explain the functional anatomy of auditory nerve. [15]

II. 3. Describe the role of brain stem auditory nuclei in localisation of sound. [15]

OR

4. Describe the coding of frequency and intensity in different brainstem nuclei. [15]

III. 5. Explain the functional architecture of auditory cortex. [10]

OR

6. Describe the coding of speech in the auditory system. [10]

IV. 7. Explain the anatomy of non classical auditory path way along with its functional significance. [10]

OR

8. Describe the role of different auditory pathway in hearing. [10]



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MP-573

Sl.No. 0016

Total No. of Pages : 1

II Semester M.Sc. Examination, September/October - 2023

(Scheme : CBCS)

AUDIOLOGY

Speech Production

Time : 2 Hours

Max. Marks : 50

Instruction : Answer all questions.

I. 1. Explain the physiological basis of speech production. [15]

OR

2. Describe the recent developments in the respiratory analysis. [15]

II. 3. a) Explain the acoustic theory of speech production. [10]

b) Write the acoustic characteristics of vowels. [5]

OR

4. What are the steps in the digital signal processing of speech. [15]

III. 5. Write a note on acoustic characteristics of plosives. [10]

OR

6. Write a note on acoustic characteristics of [2 × 5 = 10]

a) Nasals.

b) Fricatives

IV. 7. Define speech synthesis & what are the different types of speech synthesis. [10]

OR

8. Describe the acoustic characteristics in the following speech disorder [10]

a) Cleft lip & palate

b) Hearing Impairment



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MP-574

Sl.No. 0009

Total No. of Pages : 2

II Semester, M.Sc. Examination, September/October - 2023

(Scheme: CBCS)

AUDIOLOGY

Age Related Changes in Audio Vestibular System

Time : 2 Hours

Max. Marks : 50

Instruction : All the questions are compulsory.

I) 1) Write a note on anatomical and physiological changes in the auditory system from embryonic stage onwards [15]

OR

2) Write a note on anatomical and physiological changes in the peripheral vestibular system from embryonic stage onwards [15]

II) 3) Write in detail about the development of VOR and VSR reflexes. [15]

OR

4) Write in detail about the degeneration of peripheral auditory system in older individuals. [15]

III) 5) Write short notes on following

a) Effect of aging on temporal processing [5]

b) Effect of aging on binomial integration [5]

OR

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6) Write short notes on the following.

- a) Effect of aging on Romberg test findings [3]
- b) Effect of aging on subjective visual vertical test findings [3]
- c) Effect of aging on Fukuda stepping test findings. [4]

IV) 7) Vestibular evoked myogenic potentials can be a tool to assess the sacule & utricle function in older individuals justify your answer. [10]

OR

8) Write a note on effect of aging on event related potentials. [10]



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Sl.No. 0120

Total No. of Pages : 2

II Semester M.Sc. Examination, Sept./Oct. - 2023

(Scheme : CBCS)

SPEECH-LANGUAGE PATHOLOGY/AUDIOLOGY

Clinical Behavioural Analysis

Time : 2 Hours

Max. Marks : 50

Instruction: *Answer all the question.*

I. 1. Describe in detail the principles of classical conditioning. [10]

OR

2. a) What is the difference between behaviour therapy and behaviour modification. [5]

b) What is Dialectical Behavioural Counselling? [5]

II. 3. Write short notes on:

a) Adaptive Behaviour Scales. [5]

b) Modelling [5]

c) Reward Training. [5]

OR

4. Describe in detail the procedures involved in the management of problem behaviours. [15]

III. 5. Write short notes on:

a) Time out. [5]

b) Fading. [5]

c) Compliance Training. [5]

OR

P.T.O.

6. Write short notes on:

- a) Habit Reversal Techniques. [5]
- b) JPMR [5]
- c) Aversive conditioning. [5]

IV. 7. Write short notes on:

- a) Ego States. [5]
- b) REBT. [5]

OR

8. Describe the salient features of Reality Therapy. [10]

