31906 M-1856

Sl. No. 0058 Total No. of Pages : 2

I Semester M.Sc. (AUD) Examination, August - 2021
(Scheme : CBCS)
AUDIOLOGY
Diseases of the Ear and Auditory and Auditory Pathway

Time : 2 Hours **Max. Marks : 50**

Instructions : *1) Draw neat diagrams wherever necessary.*
2) Answer all the questions.

I. 1) Describe the Anatomy of inner ear. Add a note on mechanism of Hearing. **[10]**

OR

2) a) Describe Central Audiology pathway & its connections. **[5]**

b) Explain the physiology of Nerve conduction with a note on Auditory Neuropathy. **[5]**

II. 3) a) Describe the etiology, clinical features, Audiological evaluation & management of sudden SNHL. **[10]**

b) Mention the common diseases of external ear. Add a note on otomycosis. **[5]**

OR

4) Mention the diseases of otic capsule. Explain clinical features, Investigation and management of CP angle tumours. **[15]**

III. 5) a) Describe the structures involved in ototoxicity, add a note on pathogenesis. **[5]**

b) Write about chrome otitis media and its management. **[5]**

c) Write the medicolegal Issues with ototoxicity. **[5]**

OR

6) Name the various ototoxic drugs & their therapeutic uses in diseases. **[15]**

P.T.O.

IV. 7) Write notes on :

a) BPPV (Benign Paroxysmal Positonal Vertigo). **[5]**

b) Neural efferents from Labyrinth & their central connections. **[3]**

c) Cawthorne - Cooksey exercises (VRT). **[2]**

OR

8) Mention various causes of vertigo. Describe in detail about Meniere's Disease. **[10]**

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31903 M-1853

Sl.No. 0052 Total No. of Pages : 1

I Semester M.Sc. Examination, August - 2021

(Scheme : CBCS)

AUDIOLOGY

Physiological Assessment of the Auditory System

Time : 2 Hours **Max. Marks : 50**

Instruction : Answer all questions considering the choice provided.

I. 1) Explain the instrumentation and set up for single component tympanometry with an illustration. **[10]**

OR

2) Describe the clinical applications of tympanometric evaluation in differential diagnosis and management. **[10]**

II. 3) a) Explain the acoustic reflex pathway with a neat illustration. **[10]**

b) Explain the procedure to conduct reflex decay test. **[5]**

OR

4) a) Explain the various reflex patterns observed in various pathologies. **[10]**

b) Write a note on non acoustic reflexes. **[5]**

III. 5) a) Explain the classifications of OAEs. **[10]**

b) Write the instrumentation required to record SOAE. **[5]**

OR

6) Describe the principles and recording of different types of DPOAEs & TEOAEs. **[15]**

IV. 7) What are the various factors affecting the evoked OAEs? **[10]**

OR

8) What are the implications of evoked OAEs in differential diagnosis and management? **[10]**

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31902 M-1852

Sl.No. 0053 Total No. of Pages : 1

I Semester M.Sc. (AUD) Examination, August - 2021

(Scheme : CBCS)

AUDIOLOGY

Auditory Perception

Time : 2 Hours **Max. Marks : 50**

Instruction : ***Answer all questions.***

I. 1) Explain the classical and adaptive methods for psychophysical testing. **[15]**

OR

2) Explain the theory of signal detection and its applications in Audiology. **[15]**

II. 3) How loudness is perceived in individuals with normal hearing ad hearing impairment. Explain. **[10]**

OR

4) Explain the process of the perception of complex signals in the auditory system. **[10]**

III. 5) How will you estimate the shape of the auditory filter? Explain any two procedures for the same. **[15]**

OR

6) What is non peripheral masking phenomenon? Explain the procedure of co modulation masking release. **[15]**

IV. 7) Explain any two tests to assess temporal resolution abilities. **[10]**

OR

8) Explain any two models of temporal processing. **[10]**

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31901/31951 M-1851

Sl.No. 0100 Total No. of Pages : 2

I Semester M.Sc. Examination, August -2021

(Scheme : CBCS)

AUD/SLP

Research Methods and Statistics in Speech-Language & Hearing

Time : 2 Hours **Max. Marks : 50**

Instruction : ***Answer all the questions.***

I. 1) a) Explain the scope of case study in Speech and Hearing Research. **[8]**

b) Discuss the format of scientific report writing. **[7]**

OR

2) Write short notes on :

a) Independent variables. **[5]**

b) Retrospective research. **[5]**

c) Observational research. **[5]**

II. 3) a) What are the advantages and disadvantages of single-subject designs? **[5]**

b) Delineate the barriers to evidence based practice. **[5]**

OR

4) a) Discuss any two experimental designs with suitable examples from the field of speech and hearing. **[6]**

b) Explain the factors considered under external validity of research. **[4]**

P.T.O.

III. 5) a) Explain the method of constructing linear regression equation with two independent variables. **[5]**

b) Differentiate between cluster analysis and discriminant analysis. **[5]**

c) Explain the applications of independent t-test and write the procedure for the same. **[5]**

OR

6) a) Test for significance of age group and severity in the following data on scores obtained in a test, using suitable ANOVA. **[10]**

	Age Group (yrs)			
Severity	0 - 10	10 - 20	20 - 30	30 - 40
Mild	10	12	14	15
Moderate	8	10	12	12
Severe	5	10	10	10
Profound	2	5	10	10

b) What are post-hoc tests? Discuss any two post-hoc tests. **[5]**

IV. 7) a) Test the significance of difference between scores in the following severity groups using Kruskal wallis test. **[6]**

Mild	19	18	20	17	15	14
Moderate	12	13	10	9	11	-
Severe	3	5	4	6	2	-

b) Write a short note on non-parametric tests applied in case of related samples. **[4]**

OR

8) a) Differentiate between parametric and non-parametric tests. **[3]**

b) What are the consequences of failure of assumptions underlying parametric tests. **[3]**

c) Calculate Kappa coefficient and interpret. **[4]**

	Judge 1	
Judge 2	Normal	Abnormal
Normal	5	25
Abnormal	15	5

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31904 M-1854

Sl.No. 0057 Total No. of Pages : 1

I Semester M.Sc. Examination, August-2021
(Scheme : CBCS)
AUDIOLOGY
Auditory Physiology

Time : 2 Hours **Max. Marks : 50**

Instruction: Answer all the questions.

I. 1. Critically evaluate the non-osseous pathway of bone conduction with supporting studies. **[10]**

OR

2. Describe the characteristics ossicular chain vibration and its role in sound conduction. **[10]**

II. 3. Describe the afferent and efferent innervations of the cochlea. **[10]**

OR

4. Write in detail about the differences in middle ear and inner ear of human beings and lower animals. **[10]**

III. 5. Write in detail about mechano-electrical transduction in the cochlea with supporting figures. **[15]**

OR

6. Describe the generation and dynamics of cochlear fluids. **[15]**

IV. 7. Describe the vestibule-ocular and vestibule-spinal reflexes. Write about their clinical relevance. **[15]**

OR

8. Describe the structure and physiology of membranous labyrinth of vestibular sensory organ. **[15]**

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