31903 **MK-1890**

Sl. No. 0053 **Total No. of Page : 1**

I Semester M.Sc. (AUD) Examination, March - 2024
(Scheme : CBCS)
AUDIOLOGY
Physiological Assessment of the Auditory System

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

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

I. 1. Discuss the importance of multifrequency tympanometry in the differential diagnosis of middle ear disorders. **[15]**

OR

2. Describe the instrumentation, interpretation and Clinical application of wide band reflectance. **[15]**

II. 3. In detail explain the factors affecting acoustic reflexes. **[10]**

OR

4. Describe the pathway, protocol administration and clinical utility of non-acoustic reflexes. **[10]**

III. 5. In detail, explain the physiological basis of generation of OAE. **[15]**

OR

6. Explain the instrumentation, recording, factors affecting and clinical application of SOAE. **[15]**

IV. 7. Describe the clinical applications of DPOAE and TEOAE. **[10]**

OR

8. Describe the physiological basis and method to record contralateral suppression of OAEs. **[10]**

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31904 **MK-1891**

Sl. No. 0047 **Total No. of Pages : 2**

I Semester M.Sc. Examination, March - 2024
(Scheme : CBCS)
AUDIOLOGY
Auditory Physiology

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

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

I. 1. With research evidence explain the role of pinna & external auditory meatus in hearing. **[10]**

OR

2. Write a short note on :
   a) Head related transfer function. **[5]**
   b) Non- osseus mode of bone conduction. **[5]**

II. 3. a) Explain with diagram the organ of Corti. **[10]**
   b) Write short notes on cochlear hair cell regeneration. **[5]**

OR

4. Explain in detail (with diagram) the afferent and efferent nerve innervations of the auditory system. **[15]**

III. 5. a) Explain the role of proteins in cochlea. **[5]**
   b) Compare and contrast the differences in auditory system of humans and lower animals. **[5]**
   c) Explain cochlear Non- linearity. **[5]**

OR

6. a) Explain the mechanism of cochlear transduction. **[10]**
   b) Describe the motor mechanism of cochlear hair cells. **[5]**

P.T.O.

IV. 7. Write short notes on the following :

a) Vestibulo- ocular reflex pathway [5]

b) Vestibulospinal reflex [3]

c) Sacculocollic reflex [2]

OR

8. Explain the involvement of supplementary systems in balance other than vestibular system. [10]

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31906 **MK-1893**

Sl. No. 0026 **Total No. of Pages : 2**

I Semester M.Sc. Examination, March - 2024
(Scheme : CBCS)
AUDIOLOGY
Diseases of the Ear and Auditory Pathway

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

Instruction : ***draw diagrams wherever necessary. Answer all questions.***

I. 1. Describe the Anatomy of the middle ear cleft. Add a note on the development of the ear. **[15]**

OR

2. a) Describe the central Auditory pathway. **[10]**

b) Describe the Anatomy of the Inner Ear. **[5]**

II. 3. Describe the aetiology, pathology, clinical features and management of Chronic Suppurative Otitis Media. **[10]**

OR

4. Describe the aetiopathology, clinical features, Audiological tests and management of otosclerosis. **[10]**

III. 5. Write short notes on :

a) Rehabilitation of sensorineural hearing loss **[10]**

b) Ototoxic drugs **[5]**

OR

6. a) Describe the clinical features and management of Meniere's disease. **[10]**

b) Write a short note on Sudden Sensory Neural Hearing Loss. **[5]**

P.T.O.

IV. 7. Write short notes on :

a) Benign par oxysmal positional vertigo [5]

b) Adhesive otitis media [3]

c) Congenital anamolies of external Ear [2]

OR

8. Describe the surgical procedures for the improvement of conductive hearing loss. [10]