

BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

FIRST SEMESTER (2017 - 2018)

PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING

Q.P. Code: 802332

Time: Three Hours

Maximum : 75 Marks

Answer All questions

I. Elaborate on:

(2 x 10 = 20)

1. Describe the anatomy of the larynx.
2. Discuss the travelling wave theory of hearing.

II. Write notes on:

(8 x 5 = 40)

1. Describe the anatomy of the circle of Willis.
2. Discuss Bell's palsy.
3. Discuss the development of the face.
4. Describe the anatomy of the cochlea.
5. Discuss the differences between skeletal and smooth muscle.
6. Describe the mechanism of phonation.
7. Describe the mechanics of breathing.
8. Discuss the role of the middle ear ossicles in hearing.

III. Short answers on:

(5 x 3 = 15)

1. List the derivatives of the tubotympanic recess.
2. Describe the anatomy of the external ear.
3. What is the head shadow effect?
4. List the accessory muscles of respiration.
5. List the structures in the inner ear that help in balance.

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Time: Three Hours

Maximum : 75 Marks

Answer All questions

I. Elaborate on:

(2 x 10 = 20)

1. Describe the anatomy of Larynx under the following headings:
(a) Cartilages of Larynx (b) Muscles of Larynx (c) Applied Anatomy.
2. Describe the anatomy of Middle Ear under the following headings:
(a) Boundaries (b) Contents (c) Applied Anatomy.

II. Write notes on:

(8 x 5 = 40)

1. Development of tongue.
2. Structure of Oesophagus.
3. Muscles of Pharynx.
4. Membranous Labyrinth.
5. Physiology of Eustachian tube.
6. Blood supply of Tongue.
7. Physiology of Deglutition.
8. Speech breathing.

III. Short answers on:

(5 x 3 = 15)

1. Examples of any three anomalies affecting speech mechanism.
2. Anatomical planes.
3. Parts of Temporal bone.
4. Innervation to cochlea.
5. Articulators in Speech mechanism.

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Q.P. Code: 802332

Time: Three Hours

Maximum : 75 Marks

Answer All questions

I. Elaborate on:

(2 x 10 = 20)

1. Describe the anatomy and physiology of Inner ear.
2. Describe the laryngeal muscles and physiology of phonation.

II. Write notes on:

(8 x 5 = 40)

1. Anatomy of auditory tube and muscles attached to it.
2. Causes of infantile stridor.
3. Development of middle ear.
4. Cartilages of Larynx.
5. Structure of synapse.
6. Difference between adult larynx and infant larynx.
7. Mechanics of ventilation.
8. Genetic causes of hearing loss.

III. Short answers on:

(5 x 3 = 15)

1. Semi-circular canals.
2. Golgi apparatus.
3. Sub mucosal cleft.
4. Vocal cord.
5. Innervation of tongue.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0321]

MARCH 2021

Sub. Code: 2332

(AUGUST 2020 EXAM SESSION)

BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

SEMESTER - I (Regulation 2017-2018)

PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING

Q.P. Code : 802332

Time: Three hours

Answer ALL Questions

Maximum: 75 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Laryngeal muscles and physiology of phonation.
2. Write the anatomy of eustachian tube, eustachian tube function test.

II. Write notes on:

(8 x 5 = 40)

1. Anatomical planes of the body.
2. Neurotransmitters.
3. Vital capacity
4. Causes of conductive loss.
5. Thyroid hormones.
6. Autosomal dominant and recessive disorders.
7. Muscles of soft palate.
8. Structure of neuron.

III. Short answers on:

(5 x 3 = 15)

1. Name the 5 terminal branches of facial nerve.
2. Name the 3 stages of deglutition.
3. Cone of light.
4. Mitochondria.
5. Wernicke's area.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0422]

APRIL 2022

Sub. Code: 2332

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSIONS)

BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

SEMESTER - I (Regulation 2017-2018)

PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING

Q.P NO. 802332

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on : (2X10=20)

1. Describe vestibular pathway.
2. Describe the major areas of brain related to speech and hearing with a neat labelled diagram.

II. Write Notes on : (8X5=40)

1. Middle ear ossicles.
2. Nerve supply of Larynx.
3. Eustachian tube disorders.
4. Generation of Action potential.
5. Intrinsic muscles of larynx.
6. Cochlea.
7. Muscles of tongue.
8. Nasal septum.

III. Short Answers on : (5X3=15)

1. Fibres in connective tissue.
2. Cleft lip.
3. Write Valsalva manoeuvre.
4. Functions of cerumen.
5. Draw and label malleus bone.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2332

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - I (Regulation 2017-2018)
PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING
Q.P NO. 802332**

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on :

(2X10=20)

1. Muscles of Pharynx and physiology of deglutition.
2. Auditory pathway and vestibular pathway.

II. Write Notes on :

(8X5=40)

1. Structural framework of larynx.
2. Anomalies of external ear.
3. Facial paralysis.
4. Inner hair cell.
5. Aphasia.
6. Head shadow effect.
7. Development of Palate.
8. Middle ear transformer action.

III. Short Answers on :

(5X3=15)

1. Name the three types of muscles.
2. Laryngeal web.
3. Name the parts of bony labyrinth.
4. Mention the intrinsic muscles of tongue.
5. Organ of Corti.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0423]

APRIL 2023

Sub. Code: 2332

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - I (Regulation 2017-2018 onwards)
PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING
Q.P Code: 802332**

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on : **(2X10=20)**

1. Anatomy of Larynx.
2. Theories of Hearing.

II. Write Notes on : **(8X5=40)**

1. Embryonic development of Middle ear.
2. Breathing mechanisms for Respiration and Speech.
3. Mechanisms of Phonation.
4. Vestibular physiology.
5. Brief anatomy of Temporal bone.
6. Physiology of External Ear.
7. Nerve supply to Cochlea.
8. Contribution of articulatory structures to Speech production.

III. Short Answers on : **(5X3=15)**

1. Vital Capacity.
2. Rostral and Caudal positions.
3. Recurrent laryngeal nerve.
4. Vocal fold.
5. Helicotrema.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0424]

APRIL 2024

Sub. Code: 2332

BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY

SEMESTER - I (Regulation 2017-2018 onwards)

PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING

Q.P Code: 802332

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on :

(2 X 10 = 20)

1. Cartilaginous framework of the Larynx.
2. Micro Anatomy of Cochlea.

II. Write Notes on :

(8 X 5 = 40)

1. Embryonic development of Inner ear.
2. Nervous tissue.
3. Mechanism of Swallowing.
4. Electrical potentials of the Cochlea.
5. Draw and label the parts of Tympanic membrane.
6. Physiology of Eustachian tube.
7. Physiology of Middle Ear muscle.
8. Central auditory pathway.

III. Short Answers on :

(5 X 3 = 15)

1. Tidal volume.
2. Proximal and distal positions.
3. Superior laryngeal nerve.
4. Otolith organs.
5. Anatomical planes of reference.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0425]

APRIL 2025

Sub. Code: 2332

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - I (Regulation 2017-2018 onwards)**

PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING

Q.P Code: 802332

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on :

(2 X 10 = 20)

1. Discuss the development of face. Add a note on the congenital anomalies of face.
2. Explain the walls of middle ear with a neat diagram.

II. Write Notes on :

(8 X 5 = 40)

1. Structure and functions of Eustachian tube.
2. Bell's palsy.
3. Difference between infant and adult larynx.
4. Causes of functional aphonia.
5. Speech breathing.
6. Development of tongue.
7. Structure of a human cell.
8. Genetic causes of hearing loss.

III. Short Answers on :

(5 X 3 = 15)

1. What is the head shadow effect?
2. Types of muscle tissue.
3. Barotrauma.
4. Parts of temporal bone.
5. Tracheo-Oesophageal fistula.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1125]

NOVEMBER 2025

Sub. Code: 2332

**BACHELOR IN AUDIOLOGY AND SPEECH - LANGUAGE PATHOLOGY
SEMESTER - I (Regulation 2017-2018 onwards)**

PAPER II – ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING

Q.P Code: 802332

Time: Three Hours

Answer All questions

Maximum: 75 Marks

I. Elaborate on :

(2 x 10 = 20)

1. Discuss the anatomy of Larynx. Add a note on mechanism of Phonation.
2. Describe the anatomy of Membranous labyrinth. Elaborate on mechanism of Hearing.

II. Write Notes on :

(8 x 5 = 40)

1. Development of external ear.
2. Physiology of Equilibrium maintenance.
3. Structure and functions of auditory tube.
4. Lateral Wall of nose.
5. Acute otitis media.
6. Middle ear transformer action.
7. Structure and functions of Mitochondria.
8. a) Laryngomalacia b) Laryngeal atresia.

III. Short Answers on :

(5 x 3 = 15)

1. Parts of temporal bone.
2. Mechanism of Swallowing.
3. Hypopharynx.
4. Types of epithelium.
5. Stapedial Reflex.
