

MANIPAL UNIVERSITY

FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JANUARY 2016

**SUBJECT: BASIC MEDICAL SCIENCES RELATED TO SPEECH AND HEARING – PART I (B 1.4)
(ANATOMY AND PHYSIOLOGY)**

Friday, January 01, 2016

Time: 10.00-11.30 Hours

Max. Marks: 40

- ✍ Answer Section A, Section B in separate answer books.
- ✍ Answer ALL questions. Draw diagrams wherever necessary.

SECTION – ‘A’ : ANATOMY : 20 MARKS

1. Write briefly on:

- 1A. Interior of larynx
- 1B. Trachea

(5 marks × 2 = 10 marks)

2. Write short notes on:

- 2A. Name the nuclei of cerebellum
- 2B. Synovial joints
- 2C. Mention the parts of pharynx
- 2D. Centriole
- 2E. Muscles present in the tympanic cavity and their nerve supply

(2 marks × 5 = 10 marks)

SECTION – ‘B’ : PHYSIOLOGY: 20 MARKS

✍ Essay questions:

- 1A. Draw a neat labeled diagram of an electrocardiogram from limb lead II. Mention the causes for different waves. Mention any two uses of ECG.
- 1B. Describe the stages of erythropoiesis. Name any two factors that influence erythropoiesis.

(5 marks × 2 = 10 marks)

2. Write short answers for the following:

- 2A. Define resting membrane potential. Give the normal RMP in a neuron
- 2B. Mention two functions of white blood cells
- 2C. List the contractile proteins in the skeletal muscle
- 2D. Define pulmonary ventilation. Mention its normal value
- 2E. Write two functions of middle ear

(2 marks × 5 = 10 marks)



MANIPAL UNIVERSITY**FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JANUARY 2016****SUBJECT: BASIC MEDICAL SCIENCES RELATED TO SPEECH AND HEARING – PART II (ENT) (B 1.4)**

Monday, January 04, 2016

Time: 10.00-11.30 Hours

Max. Marks: 40

- ✍ Write answers that are brief, clear, relevant and legible.
✍ Illustrate your answer with diagram wherever appropriate.

SECTION – 'C' : ENT

- ✍ Answer ALL the questions.

1. Perichondritis of the pinna
2. Adenoid facies
3. Unilateral vocal cord palsy
4. Acute mastoiditis
5. Cleft palate
6. Vocal nodule
7. Physiology of voice
8. Differential diagnosis of white patch on tonsil
9. Oesophageal speech
10. Draw a neat labeled diagram of the tympanic membrane

(4 marks × 10 = 40 marks)



MANIPAL UNIVERSITY**FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JANUARY 2016****SUBJECT: INTRODUCTION TO HUMAN COMMUNICATION (B 1.1)**

Wednesday, January 06, 2016

Time: 10.00-13.00 Hours

Max. Marks: 80

☞ Answer ALL the questions.

- 1A. Explain factors affecting speech and language development.
1B. Write a note on child directed speech.

OR

- 2A. What are the various scope of practice for a SLP?
2B. Explain the different modes of communication.

(8+4 = 12 marks)

- 3A. List the cranial nerves with their functions.
3B. Write a note on brainstem.

OR

- 4A. Explain in detail the neuroanatomical areas involved in speech and language.
4B. Write a note on neuron.

(8+4 = 12 marks)

- 5A. Define respiration. Explain in detail the process of gas exchange.
5B. Write a note on lung volumes.

OR

- 6A. Compare and contrast the respiration for life and speech.
6B. Explain the terms hypoxia and asphyxia.

(8+4 = 12 marks)

- 7A. Explain in detail pitch and intensity changing mechanism.
7B. Explain different modes of vocal fold vibration.

(8+4 = 12 marks)

OR

- 8A. Explain Helmholtz resonator.
8B. Explain Harmonics. Write a note on overtones.
8C. What are the characteristics of progressive waves? Give example.
8D. Show that the overtones in a closed pipe are add harmonics of the fundamental.

(3 marks × 4 = 12 marks)

- 9A. Explain in detail the structure of tongue with neat diagram.
9B. Explain acoustic theory of speech production.

(6+6 = 12 marks)

OR

- 10A. Describe the muscles of the face and their functions.
10B. Write a note on development of articulation.

(8+4 = 12 marks)

11. Explain in not more than 2-3 sentences.

- 11A. Motherese
11B. Language
11C. CSF
11D. Neuron
11E. Cellular respiration
11F. Thoracic cavity
11G. Ventricular folds
11H. Standing waves
11I. Soft palate
11J. Masseter muscle

(2 marks × 10 = 20 marks)



MANIPAL UNIVERSITY

FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JANUARY 2016

SUBJECT: INTRODUCTION TO HEARING AND HEARING SCIENCES (B 1.2)

Friday, January 08, 2016

Time: 10.00-13.00 Hours

Max. Marks: 80

Answer ALL the questions.

IA. Discuss in detail the role of binaural hearing.

IB. Add a note on history of audiology.

(4+8 = 12 marks)

OR

2A. Write an essay on development of Audiology in India.

2B. Briefly explain different branches of Audiology.

(6+6 = 12 marks)

3A. Describe the anatomy of external ear in detail with a neat diagram.

3B. Add a note on Middle Ear Oscicles.

OR

4A. Discuss in detail any two air conduction theories.

4B. Draw a neat diagram depicting structural organization of central auditory system.

(8+4 = 12 marks)

5A. “60dB SPL + 60dB SPL is not equal to 120 dB SPL” - justify.

5B. Add a note on RETSPL.

(8+4 = 12 marks)

OR

6A. Describe the psychological correlate of frequency and intensity along with their units.

6B. Explain just noticeable difference for frequency and intensity.

(6+6 = 12 marks)

7A. Discuss various congenital causes for hearing loss.

7B. Write a note on conductive hearing loss.

OR

8A. Discuss in detail the importance of case history in hearing evaluation.

8B. Add a note on ototoxicity.

(8+4 = 12 marks)

- 9A. Discuss the principle, procedure and application of Rinne and Bing test.
9B. Add a note on compressional mode of bone conduction.

OR

- 10A. Describe ossicular theory of bone conduction with its relevance in audiology.
10B. Discuss the audiometric version of Weber test.

(8+4 = 12 marks)

11. Write short notes on the following:

- 11A. Missing 6dB
11B. Localization
11C. Fourier Analysis
11D. Syndromic hearing loss
11E. Summating potential
11F. Organ of corti
11G. Occlusion effect
11H. Audiogram
11I. Scope of Audiology in Industrial setup
11J. Reference value for dBIL and dBSLP

(2 marks × 10 = 20 marks)



MANIPAL UNIVERSITY

FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JANUARY 2016

SUBJECT: SPEECH-LANGUAGE DIAGNOSTICS AND THERAPEUTICS (B 1.3)

Monday, January 11, 2016

Time: 10.00-13.00 Hours

Max. Marks: 80

☞ **Answer ALL the questions.**

1A. Expand the following: DDK, MLU, MPD, REELS, SMR, OSME.

1B. Explain the following: Impairment, Disability, Handicap.

OR

2A. Define the following: Assessment, Diagnosis, Counselling.

2B. Elaborate on various purpose of assessment in speech language pathology.

(6+6 = 12 marks)

3A. With clinical examples, explain the essential factors to be included in case history taking for communication disorders.

3B. Add a note on morpho-syntactic analysis in children.

(6+6 = 12 marks)

OR

4A. Discuss the application of SLPM diagnostic model in speech and language.

4B. With suitable case examples, delineate the differences between provisional and tentative diagnosis.

(8+4 = 12 marks)

5A. Discuss the purpose of intervention of communication disorders.

5B. Define the following: Intervention, Rehabilitation, Progress Report.

OR

6A. Describe the components of individualized education plan.

6B. Define the following: Generalization, treatment efficacy, evidence based practice.

(6+6 = 12 marks)

7A. Explain the direct and indirect strategies for decreasing undesirable behaviours.

7B. List the advantages and limitations of clinician directed therapy approach.

OR

8A. Discuss the role of individual versus group therapy for children with language impairment.

8B. Differentiate the following techniques: Expansion, Extension.

(8+4 = 12 marks)

9A. Discuss the desirable traits of a good clinician.

9B. Describe the need for clinical documentation.

OR

10A. Discuss the concept of parent counselling and its relevance in speech language therapy.

10B. Discuss the need for follow up evaluation.

(8+4 = 12 marks)

11. Write short notes on the following:

11A. Case history

11B. Multidisciplinary team

11C. Instrumental diagnosis

11D. Rate of speech

11E. MLU

11F. Pragmatics

11G. Lesson Plan

11H. Self Talk

11I. Code of ethics

11J. Discharge report

(2 marks × 10 = 20 marks)

