

**MANIPAL UNIVERSITY****FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JUNE 2015****SUBJECT: BASIC MEDICAL SCIENCES RELATED TO SPEECH AND HEARING – PART I (B 1.4)  
(ANATOMY AND PHYSIOLOGY)**

Tuesday, June 02, 2015

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. Features of nasopharynx  
1B. Ear ossicles

(5 marks × 2 = 10 marks)

**2. Write short notes on:**

- 2A. Cerebellar peduncles  
2B. Mitochondria  
2C. Intrinsic muscles of larynx  
2D. Lymphnode  
2E. Auditory areas of brain

(2 marks × 5 = 10 marks)

**SECTION – ‘B’ : PHYSIOLOGY: 20 MARKS****3. Essay questions:**

- 3A. In the form of a flow chart, write the steps involved in the intrinsic mechanism of blood coagulation.  
3B. In the form of a flow chart describe the sequence of events during excitation-contraction coupling in skeletal muscle.

(5 marks × 2 = 10 marks)

**4. Write short answers for the following:**

- 4A. Name any two forms in which carbon dioxide is transported in blood  
4B. Draw a labeled diagram of a neuron  
4C. Name any two plasma proteins and mention one function of each  
4D. Write two differences between first and second heart sounds  
4E. Mention two functions of middle ear

(2 marks × 5 = 10 marks)



## MANIPAL UNIVERSITY

## FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JUNE 2015

SUBJECT: BASIC MEDICAL SCIENCES RELATED TO SPEECH AND HEARING – PART II (ENT) (B 1.4)

Thursday, June 04, 2015

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 any EIGHT of the following:

1. Otitis media with effusion
2. Noise induced hearing loss
3. Gastroesophageal reflux disease
4. Patulous Eustachian tube
5. Chronic tonsillitis
6. Anatomy of nasal septum
7. Voice prosthesis
8. Anatomy of larynx with diagram
9. Cochlear implant
10. Barotrauma

(5 marks × 8 = 40 marks)



**MANIPAL UNIVERSITY****FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JUNE 2015****SUBJECT: INTRODUCTION TO HUMAN COMMUNICATION (B 1.1)**

Saturday, June 06, 2015

Time: 10.00-13.00 Hours

Max. Marks: 80

✍ **Answer ALL the questions.**

1A. Explain the factors affecting normal speech and language development.

1B. Explain the cognitive basis of communication.

(8+4 = 12 marks)

**OR**

2A. Explain the characteristics of good speaker.

2B. Explain the different modes of communication.

(6+6 = 12 marks)

3A. Draw a neat diagram and label the important cerebral landmarks for speech and language.

3B. Explain the three types of cerebral connection fibers.

**OR**

4A. List the different parts of the brain stem and their functions.

4B. Write in detail about vascular supply to the brain.

(6+6 = 12 marks)

5A. Differentiate speech breathing from breathing for life.

5B. Explain Cyanosis.

**OR**

6A. With a neat diagram explain the anatomy of lungs.

6B. Explain different lung capacities.

(8+4 = 12 marks)

7A. Explain the cartilages of larynx with neat diagram.

7B. Explain the cavity of the larynx.

(8+4 = 12 marks)

**OR**

8A. Explain Harmonics. Write a note on overtones.

8B. Discuss the effect of pressure, temperature, humidity and movement of air on the velocity of sound in air.

8C. Explain with examples how the absorption coefficient varies with the frequency of the incident sound wave for different materials.

8D. What are stationary waves? When are they produced? Mention its characteristics.  
(3 marks × 4 = 12 marks)

9A. List the muscles of soft palate and explain their functions.

9B. Explain the active and passive articulators.  
(8+4 = 12 marks)

**OR**

10A. Describe the acoustic theory of speech production.

10B. Write a note on oral cavity.  
(6+6 = 12 marks)

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

11A. Speech pathologist

11B. Cognition

11C. Thalamus

11D. Arcuate fasciculus

11E. Vital capacity

11F. Lungs

11G. Simple harmonic motion

11H. Glottis

11I. Soft palate

11J. Ankyloglossia

(2 marks × 10 = 20 marks)



# MANIPAL UNIVERSITY

## FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JUNE 2015

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

Tuesday, June 09, 2015

Time: 10.00-13.00 Hours

Max. Marks: 80

**Answer the following questions. Question 11 is compulsory.**

1. Briefly describe different branches of audiology.

**OR**

2. With the help of neat diagram explain MAP and MAF.

(12 marks)

3. Explain anatomy of central auditory pathway.

(12 marks)

**OR**

4A. Describe any two air conduction theories.

4B. Explain physiology of vestibular system.

(8+4 = 12 marks)

5. Briefly explain dB concept.

(12 marks)

**OR**

6A. Write a note on frequency and intensity with their psychological correlates.

6B. Explain equal loudness curve.

(6+6 = 12 marks)

7. Explain importance of case history in differential diagnosis.

**OR**

8. Briefly discuss causes of conductive hearing loss.

(12 marks)

9. Write any two bone conduction theories of hearing.

**OR**

10. Discuss audiometric version of tuning fork tests.

(12 marks)

**11. Write short notes on the following:**

11A. Threshold of hearing

11B. Head shadow effect

11C. OHC

11D. Incus

11E. Timber

11F. Just noticeable difference for intensity

11G. Down's syndrome

11H. NIHL

11I. Interpretation of AC and BC

11J. Schwabach test

(2 marks × 10 = 20 marks)





**MANIPAL UNIVERSITY****FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION – JUNE 2015****SUBJECT: SPEECH-LANGUAGE DIAGNOSTICS AND THERAPEUTICS (B 1.3)**

Thursday, June 11, 2015

Time: 10.00-13.00 Hours

Max. Marks: 80

- ✍ **Answer ALL of the questions.**  
✍ **Draw neat labeled figures wherever necessary.**

- 1A. What are the essential factors that have to be included in a client history form?  
1B. What are the aims of a diagnosis? (8+4 = 12 marks)

**OR**

- 2A. Compare and contrast the similarities and differences in adult Vs children client history.  
2B. Describe the term "Client history". Discuss the usefulness of client history in diagnosing a communication disorder. (6+6 = 12 marks)

- 3A. Differentiate between questionnaire, self-report and interview.  
3B. Write a note on "Diagnosis by Exclusion". (9+3 = 12 marks)

**OR**

- 4A. Team approach is essential for diagnosis in communication disorders. Justify.  
4B. Describe the term "Clinical observation". Add importance of clinical observations in the assessment of child with communication disorders. (4+8 = 12 marks)

- 5A. Describe "Client directed approach" in speech and language therapy and quote in brief the important aspects involved in it.  
5B. Describe the following with example: Long term Goal and Short term goal. (8+4 = 12 marks)

**OR**

- 6A. Discuss the similarities and differences between group therapy and individual therapy.  
6B. What are the general principles of speech and language therapy? (6+6 = 12 marks)

- 7A. What is "Reinforcement"? With suitable examples, describe any two types of reinforcements in speech and language therapy.  
7B. Describe any two speech and language therapy approaches. (8+4 = 12 marks)

**OR**

- 8A. List the advantages of using "Eclectic approach" in the intervention for child with communication disorder.

8B. With suitable example elaborate “variable ratio schedule of reinforcement”.

(6+6 = 12 marks)

9A. What is “Counseling”? Describe in detail counseling the Parent/Care giver of child aged four years who is diagnosed as Expressive Language delay.

9B. What is the importance of documentation in speech and language therapy?

**OR**

10A. How do you measure therapy outcomes? Discuss the importance of evaluating therapy outcome.

10B. Describe any one report format used in the process of intervention.

(6+6 = 12 marks)

11. **Write short notes on:**

11A. Diagnostic tests

11B. Norm referenced procedure

11C. Advantages of parent based intervention

11D. Individualized Education Plan

11E. Ethics

11F. International classification and functioning

11G. Provisional Diagnosis

11H. Communicative intentions

11I. MIDVAS

11J. Discharge report

(2 marks × 10 = 20 marks)

