



FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2015
AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
Introduction to Speech and Language Pathology

Time: 2 Hours]

[Max. Marks : 50

Instruction : All Units are compulsory.

- I. 1) a) Define speech, language and communication. 5
b) What are the components of language ? 5
- OR
- 2) Draw a neat diagram and explain the speech chain in detail. 10
- II. 3) With a neat diagram describe the anatomy and physiology of larynx. 10
- OR
- 4) a) Discuss the role of nervous system in the production of speech and language. 6
b) Define fundamental frequency, harmonics, formants, periodic and aperiodic sounds. 4
- III. 5) Describe the development of voice. 10
- OR
- 6) Answer the following in not more than 4 sentences : (2.5×4=10)
a) Canonical babbling
b) Intonation
c) Reduplicated babbling
d) MLU.

[P.T.O.]



- IV. 7) a) What are Autism Spectrum Disorders (ASD) ? **3**
b) What are the causes of Autism Spectrum Disorders ? **5**
c) Define incidence and prevalence. **2**

OR

- 8) a) What are the factors which interfere with normal speech and language development ? **10**

- V. 9) a) What are the characteristics of specific learning disability ? **6**

- b) Describe not more than 2 sentences : **(4x1=4)**

- Puberphonia
- Misarticulation
- Cluttering
- Mental retardation.

OR

- 10) Compare and contrast - stuttering, cluttering and neurogenic stuttering. **10**

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I SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2015
AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
Introduction to Audiology

Time : 2 Hours]

[Max. Marks : 50

I. 1) How did the field of audiology grow as an independent profession ? 10

OR

2) Compare and contrast the case history form for children and adults. 10

II. 3) a) Differentiate between

i) MAP and MAF

ii) dB SPL and dB HL

iii) MCL and UCL. 6

b) Write short notes on :

i) RETSPL

ii) dBSL. 4

OR

4) a) Define threshold of audibility. 2

b) Describe the procedure for obtaining MAP and MAF curves. Explain the characteristics of MAP and MAF curve with suitable graph. 8

III. 5) Define phone and sone. Neatly draw phone and sone curves and explain.

OR

6) a) Compare and contrast :

i) Pitch and Loudness

ii) Sones and Phones. 5

b) Explain the units and physical correlates of pitch and loudness. 5

[P.T.O.]



IV. 7) What are the causes of acquired hearing loss ? What are the features of this kind of hearing loss ? 10

OR

- 8) a) What are the causes of conductive hearing loss ? 5
- b) Explain the signs and symptoms of conductive hearing loss. 5

V. 9) a) What is stenger principle ? Explain a tuning fork test that is based on this. 6

b) Explain the results of tuning fork tests in sensorineural loss cases. 4

OR

- 10) a) List the tuning fork tests. 2
 - b) Which of the tuning fork tests have audiologic version ? 4
 - c) How are the results interpreted ? 4
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I SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2015
AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
Anatomy Physiology and Pathology of Speech & Hearing

Time : 2 Hours]

[Max. Marks : 50

Instruction : All questions are compulsory.

PART – A

(Anatomy of Speech and Hearing)

1. a) Describe the boundaries and contents of middle ear. Briefly write a note on ossicles. 10

OR

2. a) Describe the morphology, muscles and functions of Tongue. 10
3. Answer **any two** : (2×5=10)
 - a) Cartilages and joints of Larynx
 - b) Tympanic membrane
 - c) Basilar membrane
 - d) Hyaline cartilage.

PART – B

(Physiology of Speech and Hearing)

1. a) Describe the mechanism of electrical activity in cochlea in hearing. 4
b) Name the organs of speech. 4

OR

2. a) Describe the role of organ of corti in hearing. 4
b) Physical properties of sound. 4

[P.T.O.]



3. a) Tuning fork tests. 4

b) Auditory cortex. 3

OR

4. a) Aphasia. 4

b) Functions of Hair Cells. 3

PART – C

(Pathology of Speech and Hearing)

1. a) Describe the aetopathogenesis of cell injury in detail. 7

OR

b) Describe the aetopathogenesis of CSOM. Mention the complications of CSOM. 7

2. Answer **any two** : (2x4=8)

a) Developmental anomalies of Larynx.

b) Difference between benign and malignant tumors.

c) Acoustic neuroma.

d) Hypertrophy.



FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2015
AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
Biomedical Instrumentation and Acoustics

Time : 2 Hours]

[Max. Marks : 50

Instruction : Answer all questions.

1. a) Explain the working of transistor with regions of operation. **4**
b) Explain the seven segment display w.r.t. LED and write the binary pattern for 2 and 7 using Common Cathode. **6**

OR

2. a) With block diagram, explain the working of DC power supply. **4**
b) Explain briefly the characteristics of a signal. **6**

3. a) Explain properties of sound w.r.t. :
a) Frequency Response
b) Harmonic Structure. **6**
b) Explain carbon microphone with figure. **4**

OR

4. a) Explain the following :
a) Absorption co-efficient **6**
b) Sabine's formula. **4**
b) Why vents are provided in loudspeaker enclosures ? **4**
5. a) With neat sketch, explain the working of hard disk drive. **8**
b) List out the hardware associated with p. c. **2**

OR

P.T.O.



6. a) Write the truth table for AND Gate. 2
b) Convert binary $(110101)_2$ to hexa decimal. 2
c) Explain the working of Flip flop. 6
7. a) With diagram, explain audiometer. 6
b) Explain the working principle of an immittance meter. 4

OR

8. a) With neat sketch, explain the working of artificial Larynx. 4
b) Explain the operation of Electro-acoustic impedance bridge. 6
9. a) List advantages of analog signal processing over digital signal processing. 5
b) Differentiate between IIR and FIR systems. 5

OR

10. a) With a neat sketch explain any one type of ADC. 5
b) Explain how DSP plays a major role in speech and hearing field. 5



I SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2015
AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
Linguistics, Phonetics and Language Sciences

Time : 2 Hours]

[Max. Marks : 50

Instructions : All Units are compulsory.

- I. 1) a) Define Linguistics. Describe the purpose and function of different branches of Linguistics with example. 5
b) Write a brief note on Derivational Vs Inflectional morphology. 5
- OR
- 2) a) What are the differences between animal and human communication systems ? 5
b) Discuss in brief the concept of "Morphophonemics" with suitable examples. 5
- II. 3) a) Mention the types of grammatical transformations. 5
b) Write a note on competence and performance dichotomy. 5
- OR
- 4) a) Discuss the concept of acceptability and grammaticality. 5
b) Explain deep structure and surface structures with examples. 5
- III. 5) a) Differentiate between :
- i) Phonology and phonetics
 - ii) Articulatory phonetics and acoustic phonetics
 - iii) Segmentals and Suprasegmentals. 6
- b) Write a note on classification of speech sounds on the basis of distinctive features. 4

OR

[P.T.O.]



- 6) a) What are vowels ? Differentiate vowels from consonants. 5
b) Explain the IPA transcription system and its usefulness in clinical situations. 5
- IV. 7) a) What are the differences between first and second language acquisition ? 5
b) Explain in brief the concept of linguistic interference. 5
- OR
- 8) Discuss in detail the application of linguistics in clinical diagnosis. 10
- V. 9) With suitable examples, write in brief on the major language families of India. 10
- OR
- 10) Write a note on various writing systems. 10
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I SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2015

AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

Psychology related to Speech and Hearing

Time : 2 Hours]

[Max. Marks : 50

Instruction : All Units are compulsory.

- I. 1) a) Define Clinical Psychology ? 2
- b) Explain the application of clinical psychology in the field of speech and hearing. 8
- OR
- 2) a) Explain the various criteria of normality is abnormality. 5
- b) Write a brief note on biological model of Mental disorders. 5
- II. 3) Discuss the case history method in the assessment of speech disorders. 10
- OR
- 4) a) Explain types of clinical observation. 5
- b) Explain various types of psychological assessment. 5
- III. 5) a) Explain the stages in motor development during early childhood. 5
- b) Write in brief on Piaget's theory of cognitive development. 5
- OR
- 6) Explain various stages of social development. 10

[P.T.O.]



IV. 7) Describe the principles of operant conditioning. **10**

OR

8) a) Write short note on reinforcement and its types. **5**

b) Explain the types of learning. **5**

V. 9) Explain stages and techniques used in the management of behaviour problem. **10**

OR

10) Write short notes on the following : **(2x5=10)**

a) Prompting.

b) Reinforcement.

c) Token economy.

d) Baseline assessment.

e) Neuro Physiological correlates of learning.



FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2015
**BACHELOR OF AUDIOLOGY AND SPEECH LANGUAGE
PATHOLOGY
Indian Constitution**

Time : 3 Hours]

[Max. Marks : 80

- Instructions :** 1) Answer **any 5** questions.
2) Answers should be substantiated by the **case laws** wherever necessary.
3) **All** questions carry **equal** marks.

(5×16=80)

1. What is Constitution ? What are the salient features of the Indian Constitution ?
2. What is Constitutional Law ? Discuss the essential characteristics of a Federal Constitution.
3. a) What is Preamble ? Define Preamble of Indian Constitution.
b) Discuss with supporting case laws, whether Preamble can be amended under Indian Constitution.
4. a) Discuss the origin and development of Fundamental Rights.
b) Define 'state' under Article 12 of, the Indian Constitution. Explain the term Authorities as per the definition.
5. a) Discuss Right to equality under Article 14 with decided cases.
b) Discuss Freedom of Speech and Expression under Article 19 (1) (a) and 19 (2) of the Constitution.
6. a) Discuss Right to Freedom of Profession, Occupation, Trade or Business, along with reasonable restrictions.
b) Discuss Article 21 with supporting case laws.

[P.T.O.]



7. a) Write the classification of the Directives given under Part – IV of the Constitution.
b) Briefly explain the social security charter given under the Directive Principles of State Policy.
8. a) Discuss the powers and functions of the President in India.
b) What are the privileges of the President of India ?
9. a) Briefly explain the composition of Parliament and explain the functions of Parliament.
b) Discuss the Constitutional Duties of the Prime Minister.
10. a) Discuss the powers and functions of 'Governor'.
b) Discuss the Writ Jurisdiction of the High Court U/A 226.