

7401 – A01 – IS BASLP – N – 17

FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2017

INTRODUCTION TO SPEECH AND LANGUAGE PATHOLOGY

Time : 2 Hours]

[Max. Marks : 50

- I. 1) a) Define speech, Language and communication. (4)  
b) Explain speech as an overlaid function. (6)
- Or
- 2) Write an essay on functions of communication. (10)
- II. 3) Explain the following (5 × 2 = 10)  
a) Spectrum.  
b) Periodic Vs Aperiodic sounds.  
c) Vital Capacity  
d) Vocal Tract  
e) VOT
- Or
- 4) Describe classification of consonants based on manner of articulation (10)
- III. 5) Describe normal development of speech and language (10)
- Or
- 6) Describe development of articulation (10)
- IV. 7) What are the factors which interfere with normal speech and language development? (10)
- Or
- 8) What are the causes for speech language disorders? (10)
- V. 9) Explain Aphasia and its types. (10)
- Or
- 10) Write short notes on: (5 × 2 = 10)  
a) Misarticulation and its types  
b) Dysarthria and its types

## 7402 – A02 – IS BASLP – N – 17

FIRST SEMESTER (II Year) B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2017

### INTRODUCTION TO AUDIOLOGY

Time : 2 Hours]

[Max. Marks : 50

- I. 1. A 4 year old boy, unable to talk, visited your clinic. What all information will you collect from parents? What is the relevance of each point of information? (10)
- Or
2. (a) What is the usefulness of case history? Describe with examples. (6)  
(b) Write a note on history of Audiology. (4)
- II. 3. (a) Write a note on dB concept. (5)  
(b) Mention the applications of dB concept. (5)
- Or
4. Describe two procedures for estimating MAP. (10)
- III. 5. Describe Equal Loudness Conture. (10)
- Or
6. (a) What is phon and sone? (5)  
(b) Mention the psychological correlates of frequency and intensity. (5)
- IV. 7. Describe the causes of congenital and acquired sensorineural hearing loss. (10)
- Or
8. (a) Describe the characteristics of conductive hearing loss. (5)  
(b) Causes of central auditory disorder. (5)
- V. 9. Describe audiometric Weber and Bing test. (10)
- Or
10. Discuss the procedure and interpretation of any two tuning fork test. (10)
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**7403 – A03 – IS BASLP – N – 17**

FIRST SEMESTER (I Year) B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2017

**ANATOMY PHYSIOLOGY AND PATHOLOGY**

Time : 3 Hours]

[Max. Marks : 50

**Part A (20 Marks)**

(Anatomy of speech and hearing)

1. Describe anatomy of middle ear with neat labelled diagram. 10  
Or
2. Describe morphology , muscles & functions of tongue . 10
3. Short notes (any **two**): (2 × 5 = 10)
  - a) Anatomy of TM
  - b) Blood supply of cochlea
  - c) Auditory pathway
  - d) Structures derived from pharyngeal arches.

**Part B (15 Marks)**

(Physiology)

1. Describe physiology of phonation. 10  
Or
2. Describe functions of inner ear. 10
3. Short notes (any **two**): (2 × 2½ = 5)
  - a) Wernicke's area
  - b) Action Potential
  - c) Bekesy theory of hearing.
  - d) Vital capacity.

**Part C (15 Marks)**

(Pathology)

1. Define necrosis , Mention different types of necrosis, Add a note on coagulative necrosis. 7  
Or
  2. Describe etiopathogenesis of csom, Mention the complication of csom & Sequelae of csom. 7
  3. Short notes (any **two**)
    - a) Factor influencing healing. (2 × 4 = 8)
    - b) Ototoxicity
    - c) Apoptosis
    - d) Acoustic Neuroma.
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**7404 – A04 – IS BASLP – N – 17**

FIRST SEMESTER (I Year) B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2017

**BIOMEDICAL INSTRUMENTATION AND ACOUSTICS**

Time : 2 Hours]

[Max. Marks : 50

- I. 1) (a) Which electronic component is used as a preamplifier in hearing aids? Explain its functioning. 4
- (b) With a neat block diagram, explain a DC power supply. 4
- (c) List any four applications of semiconductor diode. 2
- Or
- 2) (a) Which class of output power amplifier is most suited for hearing aids? Give reasons. 4
- (b) Which type of stabilizer will you prefer to connect all equipments in your clinic? Explain the working of stabilizer. 4
- (c) Differentiate between pitch and frequency. 2
- II. 3) (a) Which type of microphone is used in hearing aids? Explain its structure and principle of operation. 4
- (b) Explain why different loud speakers are used for different audio frequency bands in high power audio system. 4
- (c) List the advantage of optical recording over magnetic recording. 2
- Or
- 4) (a) State a formula for reverberation time. List two ways of reducing reverberation time. 4
- (b) Draw a block diagram of sound level meter and explain how it measures sound. 4
- (c) Mention the rules of reflection of sound. 2
- III. 5) (a) With a truth table, explain how the following gate functions: 4  
OR Gate & AND Gate.
- (b) Explain how a flip flop stores binary digit. 4
- (c) Define bit & byte. 2
- Or
- 6) (a) What do you mean by computer peripheral? List any four computer peripherals. Explain the working of one of them. 4
- (b) List the name of three Operating Systems. Discuss the functioning of Operating Systems in a working computer. 4
- (c) List any four types of memory device that can be connected externally to a computer. 2

[P.T.O.]

- IV. 7) (a) What is the function of a transducer in an electronic instrument? List the different transducers that you have seen in Speech and Hearing Instrument. 4  
(b) Explain how oscillator works. List two applications. 4  
(c) Draw the frequency response curve for low pass, high pass, band pass and notch filters. 2

Or

- 8) (a) With a functional block diagram, explain the working of Speech Spectrograph. 4  
(b) With neat block diagram explain the working of audiometer 4  
(c) List out the limitations of induction loop 2

- V. 9) (a) With a neat block diagram, explain the functioning of Digital Signal Processing System. 4  
(b) State and explain the advantages of digital signal processing. 4  
(c) List the advantages of FIR Filter over IIR Filter. 2

Or

- 10) (a) Explain the need for digital signal processing in hearing aids. Highlight the advantages. 4  
(b) Describe the steps involved in converting analog to digital signal. 4  
(c) List two applications of Digital Signal Processing in the field of Speech and Hearing. 2
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**7405 – A05 – IS BA SLP – N – 17**

**FIRST SEMESTER B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2017**  
**LINGUISTICS, PHONETICS AND LANGUAGE SCIENCES**

Time : 2 Hours]

[Max. Marks : 50

*Answer all questions.*

- I. 1. (a) How linguistics is related to other social sciences? Explain. 5  
(b) What are the branches of linguistics? 5  
Or
2. (a) What is the scope of linguistics? Explain. 5  
(b) What is the definition of language? Explain. 5
- II. 3. (a) What are the branches of phonetics? Explain. 5  
(b) Define vowels and consonants and how they are differ in nature. 5  
Or
4. (a) What is first language and second language? Explain. 5  
(b) What are diphthongs? Explain with example. 5
- III. 5. (a) Explain the principles of identification of morpheme 2<sup>nd</sup> and 3<sup>rd</sup> as laid down by Nida with giving suitable examples. 6  
(b) What is morpheme? Explain with suitable example. 4  
Or
6. (c) Sketch the organs of speech sounds and label it. 5  
(d) What is road and stem ? Explain with example 5
- IV. 7. (a) What is additive morpheme, substructure morpheme and Zeromorpheme. Explain with examples. 6  
(b) What is phoneme? Explain the contrastive distribution and complementary distribution. 4  
Or
8. (a) What is nasalization, palatalization and labialization? Explain with examples. 6  
(b) What is root and stem? Explain. 4
- V. 9. (a) What are grammatical categories? Explain. 5  
(b) Define sentence and what are different types of sentences according to traditional grammarian? 5  
Or
10. (a) What are immediate constituents? Explain. 5  
(b) Explain Dravidian language family. 5
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**7406 – A06 – IS BASLP – N – 17**

FIRST SEMESTER (I Year) B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2017

**PSYCHOLOGY RELATED TO SPEECH AND HEARING**

Time : 2 Hours]

[Max. Marks : 50

*Answer all the questions.*

*Each carries ten marks.*

- I. 1) What is clinical psychology? Explain the applications of clinical psychology in the field of speech and hearing. (10)
- Or
- 2) Discuss the concept of normality and abnormality. (10)
- II. 3) Explain in brief different types of psychological assessments. (10)
- Or
- 4) Write an essay on diagnostic interview and case history. (10)
- III. 5) Write an essay on Piaget's theory of cognitive development. (10)
- Or
- 6) Define what is intelligence? Write any two tests for assessment of intelligence. (10)
- IV. 7) Define learning and discuss the principles of Pavlov's classical conditioning. (10)
- Or
- 8) What is the meaning of learning? Illustrate learning curves. (10)
- V. 9) Explain the neuro chemical correlates of learning. (10)
- Or
- 10) Write a note on any two of the following: (10)
- (a) Time out
  - (b) Aversion therapy
  - (c) Reinforcement
  - (d) Extinction.
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**7407 – A07 – IS BASLP – N – 17**

FIRST SEMESTER (I Year) B.A.S.L.P. DEGREE EXAMINATION, NOVEMBER 2017

**INDIAN CONSTITUTION**

Time : 2 Hours]

[Max. Marks : 80

*Answer any five questions.*

*Answer should be substantiated by the case laws wherever necessary.*

*All questions carry equal marks.*

1. What is Preamble? Define Preamble of Indian Constitution.
  2. Define Citizenship. Explain Citizenship with appropriate case laws.
  3. (a) Explain making of Indian Constitution.  
(b) Define significance of Constitutional law.
  4. (a) Define Right against Exploitation under Art 23 and Art 24 with decided cases.  
(b) Discuss six freedoms under Art 19 of the Indian Constitution.
  5. (a) Explain cultural and educational rights under Art 29 and Art 30 with decided case laws.  
(b) What is the difference between Writs and Public Interest Litigation? Explain.
  6. (a) Define Fundamental Rights?  
(b) Discuss the five Writs of the Constitution under Art 32 of Indian Constitution with decided case laws.
  7. (a) Explain the nature of Directive Principle of State Policy?  
(b) Define fundamental duties of India under Art 51A of Indian Constitution.
  8. (a) Explain jurisdiction of the Supreme Court?  
(b) What is independent of Judiciary, justify?
  9. (a) Explain the power and functions of Parliament?  
(b) Discuss relation between Union and States.
  10. (a) Define composition, power and functions of State Legislature.  
(b) What is Local Government and Constitution. Justify your answer.
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