



**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH
(A DEEMED TO BE UNIVERSITY)**

**Bachelor in Audiology and Speech– Language Pathology
First Year Semester-I March 2023 Examination**

Time: 3 Hrs

Max Marks: 80

Anatomy and Physiology of Speech and Hearing

QP Code:S1020

Your answers should be specific to the question asked

Draw neat labelled diagrams wherever necessary

- I**
- 1.** a) Define a cell. Enumerate different cell organelles and their functions. [8]
b) Describe the microscopic structure of smooth muscle with the help of a diagram. Mention the location and function of smooth muscles [8]
- (OR)**
- 2.** a) Describe the features of cartilaginous joints with examples and mention their functions [8]
b) Classify neurons based on their structure and function. What are the properties of nervous tissue? [8]
- II**
- 3.** a) Write a short essay on the embryonic development of external and middle ear. [8]
b) Describe the stages of spermatogenesis and oogenesis [8]
- (OR)**
- 4.** a) Describe the embryonic development of inner ear [8]
b) Which are the congenital anomalies that affect speech – language and hearing [8]
- III**
- 5.** a) Mention any three articulators and briefly describe their role in speech production. [8]
b) Explain the mechanism of phonation [8]
- (OR)**
- 6.** a) Explain the anatomy of resonatory mechanism and its influence on output speech [8]
b) Describe the structure and function of oesophagus [8]
- IV**
- 7.** a) Name the smallest bone in the human body. Describe its structure and role in hearing. [8]
b) Discuss the structure and function of auditory tube [8]
- (OR)**
- 8.** a) What is the mechanism of the transformer action of middle ear [8]
b) Describe the structure and function of external auditory meatus [8]
- V**
- 9.** a) Describe the structure of the organ of corti with a neat diagram [8]
b) Describe the structure and function of semi-circular canals, utricle and saccule [8]
- (OR)**
- 10.** a) Discuss the physiology of stereocilia. Which are the three electrical potentials of the cochlea. [8]
b) Describe the functional anatomy of central auditory pathway [8]

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Clinical Psychology

QP Code:S1030

Your answers should be specific to the question asked

Draw neat labelled diagrams wherever necessary

- I** 1. a) Define Psychology. Write short notes on any four branches of psychology. [8]
b) Write a note on the current status and scope of clinical psychology [8]

OR

2. a) What aspects of clinical psychology should a speech and hearing professional study and why? [8]
b) Describe psychological models of mental disorders. [8]

- II** 3. a) Discuss the rationale of classification. [8]
b) What information should a clinician obtain from his clients/guardians before starting assessment/evaluation of client's problem? [8]

OR

4. a) Define psychological testing. Explain cognitive assessment focusing one component. [8]
b) Define and describe the types of clinical observation. [8]

- III** 5. a) What is intelligence? Trace intellectual growth and development from birth to old age. [8]
b) What are the similarities and differences in the characteristics of social behaviour of children in the preschool and late childhood levels? [8]

OR

6. a) Discuss three components of emotions [8]
b) What are the principles of motor and sensory-motor development in early childhood? [8]

- IV** 7. a) Define learning. List out the characteristics of learning and explain them. [8]
b) What is acquisition in classical conditioning? Describe and explain it. [8]

OR

8. a) Write a detailed note on the principles of classical conditioning. [8]
b) What is Skinner's operant conditioning? Describe response class and explain it. [8]

- V** 9. a) What is the field of neuropsychology? Describe the assessment of any two cognitive components. [8]
b) Elucidate the techniques of neuropsychological rehabilitation. [8]

OR

10. a) What is the counselling process? Write a note on non-directive counselling. [8]
b) What are the essential characteristics of a counsellor? What are the do's and don'ts for a counsellor? [8]



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Linguistics and Phonetics

QP Code: S1040

Your answers should be specific to the question asked

Draw neat labelled diagrams wherever necessary

- I**
1. a) Based on the characteristics and functions of language, justify how language ability of the mind is unique to human beings. [8]
b) Define the terms competence and performance. Why are they important in language acquisition? [8]
- (OR)**
2. a) Discuss why and how a study of linguistics is relevant to students of speech-language pathology. [8]
b) Discuss how the notion of morpheme and its types contribute to methods of morphemic analysis. [8]
- II**
3. a) Discuss the notion of cardinal vowels with a neatly labeled diagram. Explain the parameters for classification and description of cardinal vowels. [10]
b) Briefly describe IPA and any one method of phonetic transcription. [6]
- (OR)**
4. a) Define phonotactics. Give an example of a phonotactic pattern in any language known to you. [6]
b) Describe the phonological processes in your language. Explain why these concepts are important for a speech-language pathologist. [10]
- III**
5. a) Outline, with suitable examples, the morphological processes of word formation. [10]
b) Define the terms – morph, morpheme, allomorph and root. [6]
- (OR)**
6. a) Explain the statement “Form, content and use are three aspects of language. Of these, content pertains to word meaning”. [8]
b) Describe the different semantic / lexical relations that categorize vocabulary. [8]
- IV**
7. a) Elaborate on the relationship between language and cognition. [8]
b) Outline the cognitive theory of language acquisition. [8]
- (OR)**
8. a) Outline the developmental milestones in first language acquisition. Organize your answer into stages. [10]
b) What are the differences between first language acquisition and second language acquisition? [6]
- V**
9. a) Describe the factors influencing second language acquisition. [10]
b) Compare and contrast second language acquisition with first language acquisition. [6]
- (OR)**
10. a) Discuss the importance of studying multilingualism for speech-language pathologists. Describe how second language acquisition results in multilingualism. [10]
b) Briefly describe the various types of writing systems used in India [6]



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Bachelor in Audiology & Speech-language Pathology

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Time: 2.30 Hours

Max. Marks: 80

Communication Sciences: Speech-language Pathology & Audiology

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

(Use Separate answer booklet for Section A & B)

Section- A

Communication Sciences: Speech-language Pathology (40Marks)

QP Code: S1285

Long essay

1 x 10 = 10 marks

1. Explain the neurological bases of speech and language.

Short essay

3 x 5 = 15 marks

2. Describe the development of fluency in a typically developing child.
3. What are the speech characteristics seen in children with cleft lip and palate?
4. What is apraxia? Explain the speech characteristics seen in children with apraxia of speech

Short answer

5 x 3 = 15 marks

5. Explain the changes seen in voice from infancy to adolescence.
6. What are the prerequisites for development of speech and language?
7. Characteristics of team approach
8. Briefly explain the history of the development of the field of speech-language pathology.
9. Write a note on the educational and clinical training required for a clinician in the field of speech-language pathology.

Section – B

Communication Sciences: Audiology (40 Marks)

QP Code: S1286

Long essay

1 x 10 = 10 marks

1. Discuss the different methods of threshold estimation.

Short essay

3 x 5 = 15 marks

2. What is the rationale behind the usage of dB concept in audiology? What are their applications in audiology?
3. Describe equal loudness contours.
4. Describe the development of the field of audiology in the Indian context.

Short answer

5 x 3 = 15 marks

5. Define intensity and frequency and mention its units
6. Define dB HL and dB SL
7. Mention the branches of audiology
8. Define threshold of audibility
9. Briefly write about the scope of an audiologist.

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Anatomy and Physiology of Speech-language and Hearing

Section- A

Anatomy and Physiology of Speech-language (40Marks)

QP Code: S1295

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

(Use Separate answer booklet for Section A & B)

Long essay

1 x 10 = 10 marks

1. Describe the anatomical terms, positions and planes.

Short essay

3 x 5 = 15 marks

2. Describe the anatomy of articulatory structures in brief.
3. Describe the anatomical structures of larynx in brief.
4. Describe the role of resonatory mechanism in speech production.

Short answer

5 x 3 = 15 marks

5. List the differences between breathing and speech breathing.
6. Which are the different cartilages of the larynx?
7. Describe the various stages of swallowing.
8. Briefly explain the different parts of pharynx.
9. Briefly describe the anatomy of oesophagus.

Section – B

Anatomy and Physiology of Hearing (40 Marks)

QP Code: S1296

Long essay

1 x 10 = 10 marks

1. Describe the structure and function of external auditory canal

Short essay

3 x 5 = 15 marks

2. What are the two muscles found in the middle ear cavity? Explain their origin and insertion.
3. Discuss the role of middle ear in the transmission of sound
4. Describe the structure of organ of corti

Short answer

5 x 3 = 15 marks

5. Name the structures which form the lateral wall, floor and roof of the cochlear duct?
6. What are the different mechanisms that explain hearing through bone conduction?
7. Define mitosis. List the phases of mitosis.
8. Write the different stages of development of middle ear in a sentence each
9. Mention the embryonic anomalies affecting pinna and external auditory canal.

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Clinical Psychology

QP. Code: S1300

*Your answers should be specific to questions asked.
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Long Essay

2 X 10 = 20 marks

1. Elucidate the importance of clinical psychology in understanding speech & hearing
2. Define classical conditioning. Discuss the different principles of classical conditioning.

Short Essays

6 X 5 = 30 marks

3. Spell out the criteria of normality & abnormality
4. Specify the characteristics of a good clinician
5. Enumerate the characteristics of emotional behaviour across age
6. Define learning. Describe, in brief, the characteristics of learning
7. Define neuropsychology. Discuss any two types of neuropsychological assessment
8. Enumerate any four characteristics of a good counsellor

Short Answers

10 X 3 = 30 marks

9. Explain any two types of psychological assessments
10. Write any two principles of child development
11. Discuss the importance of different aspects of personal history.
12. Specify any two consequences as mentioned in Operant conditioning
13. What are the characteristics of early motor development?
14. Describe any two psychological models of mental disorders.
15. Define intelligence. Write a short note on any one test of intelligence.
16. What is memory? Write any one test for memory
17. Write the characteristics of social behaviour at the preschool stage
18. Write on cell regeneration theory of neurophysiology

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Linguistics and Phonetics

QP. Code: S1310

*Your answers should be specific to questions asked.
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Long Essay

2 X 10 = 20 Marks

1. Describe the various types of writing systems. Add a brief note about the history of writing systems.
2. Outline the various methods of syntactic analysis known to you. Elaborate on any one method.

Short Essays

6 X 5 = 30 Marks

3. Describe the supra-segmental features that contribute to prosody of speech.
4. List the milestones during the acquisition of phonology in children.
5. Outline the branches of linguistics that are relevant to the study of language disorders.
6. With the help of suitable examples, describe syntagmatic and paradigmatic relations that exist between elements of language.
7. Discuss the relationship between language and cognition.
8. Enumerate the issues involved in Second language acquisition.

Short Answers

10 X 3 = 30 Marks

9. Define pragmatics and discourse.
10. Define coarticulation. Give an example to illustrate your answer.
11. Briefly explain - content and function morphemes.
12. Define the Chomskian notions of competence and performance.
13. Write a brief note on experimental phonetics.
14. What is mean length of utterance (MLU)?
15. Define the semantic relations – hypernymy and hyponymy.
16. Describe the relevance of applied linguistics to SLPs.
17. What is multilingualism?
18. List the various form classes (in morphology).

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