

11/26

**BLDE (DEEMED TO BE UNIVERSITY)**  
**B.Sc. in Audiology & Speech Language Pathology**

[Time: 3 Hours]

[Max. Marks: 80]

**VI SEMESTER**

**PAPER - I (Technology & Amplification Devices for persons with Hearing)**

**QP CODE: 86701**

**Long Questions**

**10X1 = 10 Marks**

1. Explain electroacoustic characteristics of hearing aids and discuss interpretation of the analysis.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Describe amplifier types and amplifier distortion.
3. Explain microcomputers and their basic functional blocks.
4. What is DSP-based hearing aid? Explain with a simple block diagram.
5. Write a short note on microphone impedance and sensitivity.
6. Explain loudspeaker efficiency and power.
7. Describe CD-ROM recording in simple terms.
8. Discuss recent signal-processing advances in hearing aids (BILL, TILL, PILL).
9. Explain prescriptive and comparative procedures of hearing aid selection.
10. Discuss hearing aids for infants and multiple-handicapped children.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What are passive filters?
12. Define linear amplifier.
13. What is digital tape recording?
14. What is an artificial mastoid?
15. What is peak clipping?
16. Write any two advantages of binaural hearing aids.
17. What is speech banana?
18. What is chronic middle ear disorder (mention any one effect on HA selection)?
19. Define multi-speaker system.
20. What is a frequency counter?
21. Name two types of receivers used in hearing aids.

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**VI SEMESTER**

**PAPER - II (Professional Practices in Speech, Language & Hearing Including  
Community Work)**

**QP CODE: 86711**

**Long Questions**

**10X1 = 10 Marks**

1. Explain the epidemiology of speech, language and hearing disorders and describe how prevalence and incidence influence service planning.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Discuss levels of prevention with examples from communication disorders.
3. Explain environmental and social implications of disability.
4. Write a short note on institution-based and camp-based service delivery models.
5. Describe the role of ICDS and DDRC in providing services for persons with disabilities.
6. Explain the concept of ICF (2001) and its use in rehabilitation.
7. Discuss professional ethics for Speech-Language Pathologists.
8. Explain the role of an SLP in interacting with allied professionals.
9. Describe components involved in planning services for the communication-disordered population.
10. Discuss strategies for public awareness and education in communication disorders.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Define epidemiology.
12. What is primary prevention?
13. Define incidence.
14. What is community-based rehabilitation?
15. Write any two roles of NGOs in disability services.
16. What is the National Trust Act (1999)?
17. What is inclusion?
18. Define documentation.
19. What is a camp approach?
20. Mention any two socio-cultural factors affecting disability attitude.
21. What is consumer protection in rehabilitation?

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**VI SEMESTER**  
**PAPER - III (Neurogenic Language Disorders in Adults)**  
**QP CODE: 86721**

**Long Questions**

**10X1 = 10 Marks**

1. Describe major types of aphasia based on psycholinguistic and behavioral characteristics.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain neurochemical correlates of language.
3. Discuss concepts of recovery and relearning after brain injury.
4. Write a short note on vascular supply to the brain.
5. Explain clinical features of aphasia with examples.
6. Discuss associated problems in aphasia such as apraxia and dysarthria.
7. Describe the role of EEG and evoked potentials in assessment.
8. Write a note on the Minnesota Test for Differential Diagnosis of Aphasia (MTDDA).
9. Describe traumatic brain injury (TBI) as a cause of language disorder.
10. Explain family counselling and the role of caregivers in aphasia management.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is Blood-Brain Barrier?
12. Define linguistic impairment.
13. What is MRI?
14. What is functional communication profile?
15. Mention two types of acquired dyslexia.
16. Define dementia.
17. What is Schuell's auditory stimulation?
18. Who are members of a team approach in aphasia?
19. What is group therapy?
20. Mention one Indian aphasia test.
21. What is interference in aphasia?

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**VI SEMESTER**  
**PAPER - IV (Noise Measurements & Hearing Conservation)**  
**QP CODE: 86731**

**Long Questions**

**10X1 = 10 Marks**

1. Discuss the steps involved in a hearing conservation program and explain their importance.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain community, music-related and traffic noise sources.
3. Describe Speech Interference Level (SIL) and Articulation Index (AI).
4. Explain psychological and somatic responses to noise exposure.
5. Write a note on periodic monitoring audiometry in occupational settings.
6. Discuss tests for susceptibility to noise-induced hearing loss.
7. Describe aircraft noise measurement procedures.
8. Explain different types of ear plugs and their uses.
9. Discuss evaluation of attenuation characteristics of EPDs.
10. Explain different acts and regulations related to noise (Walsh-Healey, AAOO, OSHA, Indian standards).

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is PN dB?
12. Define noise criteria (NC curves).
13. Mention two non-auditory effects of noise.
14. What is Social Adequacy Index?
15. Define impedance audiometry.
16. What is vibration measurement?
17. Define helmets as hearing protectors.
18. What is damage risk contour?
19. What is AMA method?
20. Mention any two BIS standards on noise.
21. What is NIHL?

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**VI SEMESTER**

**PAPER - V (Basic Statistics & Scientific Enquiry in Audiology & Speech Language Pathology/ Pediatrics and Genetics)**

**QP CODE: 86741/86751**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**QP CODE 86741: (Basic Statistics & Scientific Enquiry)**

**Long Questions**

**10X1 = 10 Marks**

1. Discuss central tendency measures (mean, median, and mode) with examples and explain when each measure is preferred.

**Short Essays: (Any – 4)**

**5 X 4 = 20 Marks**

2. Describe the scientific status of Speech-Language Pathology and Audiology.
3. Explain ex-post facto research design with an illustration.
4. Write a short note on ethics in behavioural science research.
5. Discuss the importance of classification of data.
6. Explain the concept of normal distribution and its importance in statistics.

**Short Answers (Any – 5)**

**2 X 5 = 10 Marks**

7. What is a hypothesis?
8. Define standard deviation.
9. What is a research question?
10. Define discrete data.
11. What is probability?
12. What is a "t-test"?

**QP CODE: 86751 (Pediatrics and Genetics)**

**Long Questions**

**10X1 = 10 Marks**

1. Discuss the various genetic disorders that contribute to speech-language and hearing impairment.

**Short Essays: (Any – 4)**

**5 X 4 = 20 Marks**

2. Explain laboratory techniques used in basic genetic assessment.
3. Discuss chromosomal disorders with suitable examples.
4. Describe growth patterns from birth to puberty.
5. Explain nutritional disorders related to vitamins in children.
6. Write a short note on methods of teaching ISL to adolescents.

**Short Answers (Any – 5)**

**2 X 5 = 10 Marks**

7. What is meiosis?
8. Define gene therapy.
9. What are trace elements?
10. What is adolescent growth spurt?
11. Define congenital hearing loss.
12. What is the Human Genome Mapping Project (HGMP)?

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**VI SEMESTER**  
**PAPER - VI (Auditory Verbal Therapy)**  
**QP CODE: 86761**

**Long Questions**

**10X1 = 10 Marks**

1. Describe the auditory verbal treatment plan, including baseline evaluation, session planning and outcome monitoring.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain professional development requirements for AVT practitioners.
3. Describe prerequisites for effective Auditory Verbal Training.
4. Write a short note on recording diagnostic information during sessions.
5. Discuss listening skills development and its stages.
6. Explain the importance of assessing speech, language, audition and cognition.
7. Describe the use of language sample analysis to evaluate outcomes.
8. Write a short note on the importance of singing and early learning-to-listen sounds.
9. Explain basic principles of parent counselling in AVT.
10. Discuss how recommendations are made to parents based on test results.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is the philosophy of AVT?
12. Define short-term goals.
13. What is functional listening?
14. Mention any two activities for toddlers.
15. What is sequential planning of listening skills?
16. What is an AVT home program?
17. What is skill facilitation?
18. Define early learning sounds.
19. What is team approach in AVT?
20. What is outcome documentation?
21. What is meant by realistic expectations?