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Reg. No.

BAPSLC 254

Credit Based IV Semester B.A.S.L.P. Examination, April/May 2012
(2010-11 and Earlier Batches) (Old Syllabus)
BASIC ELECTRONICS AND ACOUSTICS

Time : 3 Hours Max. Marks : 100

Instruction : Answer all questions.

UNIT – 1

1. a) Explain Doppler effect. 5
   b) What are progressive waves ? Add a note on refraction and diffraction. 10
   c) Write a note on helmholtz resonator. 5

OR

2. Write short notes on : (5×4=20)
   a) Resonance of a mass-spring.
   b) Simple harmonic motion.
   c) Acoustic impedance.
   d) Wave length.

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UNIT – 2

3. Write a note on : (5×4=20)
   a) Critical bands
   b) Psychophysical scales
   c) Fourier analysis
   d) Reverberant sound.

OR

4. a) What is reverberation time ? 5
   b) How do you calculate reverberation time ? Give examples. 10
   c) Add a note on loudspeaker placement and directivity. 5

P.T.O.

UNIT – 3

5. a) What are filters and amplifiers ? Enumerate its different types. 16

   b) Write a note on oscillators. 4

OR

6. Describe microphones as transducers. Elaborate its application in Audiology. 20

UNIT – 4

7. Define loudspeakers. Write a note on types and efficiency of loudspeakers. 20

OR

8. Write short notes on : (5×4=20)

   a) Earphones

   b) Magnetic tape recording

   c) AM/FM tuners

   d) Horn speakers.

UNIT – 5

9. Write short notes on : (5×4=20)

   a) Functioning of sound level meter

   b) Cathode ray oscilloscope

   c) Microprocessors

   d) Voltmeter.

OR

10. a) Explain linear and digital integrated circuits. List the advantages of integrated circuits over discrete components. 10

    b) Write short notes on :

       i) Spectrum analyser

       ii) Microelectronic devices. 10

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BAPSLC 257

Credit Based IV Semester B.A.S.L.P. Examination, April/May 2012
(New Syllabus) (2011-12 Batch)
VOICE AND LARYNGECTOMY

Time : 3 Hours Max. Marks : 100

Note : *1) Answer all questions.*
2) All carry equal marks.

UNIT – 1

1. a) Explain theories of phonation. 10
   b) Write a note on development of voice. 10

OR

2. a) Discuss briefly the endocrine voice disorders. 10
   b) Write short notes on :
      1) Voice characteristics in hearing impaired 5
      2) Acoustical correlates of voice. 5

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UNIT – 2

3. Outline the assessment and management in neurological voice disorders. 20

OR

4. a) Write short notes on :
      1) Functional aphonia 5
      2) Role of SLP in congenital voice disorders. 5
   b) Discuss the management in vocal hyperfunctional voice disorders. 10

P.T.O.

UNIT – 3

5. Discuss the importance of instrumental evaluation in voice disorders. 20

OR

6. a) Discuss the various subjective measures of voice disorders. 10

b) Write short notes on

1) EGG 5

2) VHI. 5

UNIT – 4

7. a) Explain the pre-operative counselling for laryngectomy. 10

b) Write short notes on :

1) Esophageal insufflation test 5

2) ASAI technique. 5

OR

8. What is esophageal speech ? Explain the various techniques of esophageal speech production. 20

UNIT – 5

9. Who are professional voice users ? Outline the management options to be considered among different professional voice users. 20

OR

10. Discuss the various therapy techniques in

1) U/L vocal cord palsy 10

2) Puberphonia 10

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BAPSLC 258

Credit Based IV Semester B.A.S.L.P. Examination, April/May 2012
(New Syllabus) (2011-12 Batch)
MOTOR SPEECH DISORDERS IN CHILDREN

Time : 3 Hours Max. Marks : 100

Instructions : 1) Answer all questions.

2) All carry equal marks.

UNIT – 1

1. Peripheral nervous system in very important for speech motor control. Justify the statement. 20

OR

2. With the help of a neat diagram. Identify cortical and subcortical structures required for speech production. 20

UNIT – 2

3. Briefly write on :
   a) Speech and language problems in children with C.P. 10
   b) Speech and language assessment protocol in C.P. 10

OR

4. What are the management approaches to neuromuscular education ? Describe each approaches with their rationale. 20

UNIT – 3

5. Highlight speech and non speech characteristics of spasticity and flaccidity. 20

OR

6. Write briefly on : (5x4=20)
   a) Juvenile progressive bubbar palsy.
   b) Dystonia
   c) Tremors and tics disorder
   d) Ataxia.

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P.T.O.

UNIT – 4

7. Write the definition, causes and features of Apraxia of speech. 20

OR

8. What are the management principles and practices in developmental apraxia of speech ? 20

UNIT – 5

9. Write an assessment process for selecting and training AAC in cerebral palsy children. 20

OR

10. a) Highlight features of aided and unaided AAC systems. 10

b) How do you ensure effective use of AAC ? Highlight steps to be taken. 10

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BAPSLC 259

Credit Based IV Semester B.A.S.L.P. Examination, April/May 2012
(New Syllabus)(2011-12 Batch)
DIAGNOSTIC AUDIOLOGY(Part – II)

Time : 3 Hours

Max. Marks : 100

Instructions : 1) Write all questions.
2) All questions carry equal marks.

UNIT– 1

1. Write short notes on : (5×4=20)
   a) Tympanometric peak pressure
   b) Static immittance
   c) Tympanometric width
   d) Instrumentation of acoustic immittance meter.

OR

2. Draw neat diagrams and explain IPSI lateral and contralateral acoustic reflex pathway. Describe the clinical applications of reflexometry. 10+10=20

UNIT– 2

3. Describe various factors affecting ABR. 20

OR

4. Describe the instrumentation, test procedures and interpretation of ABR with appropriate diagrams. 20

UNIT– 3

5. Describe the test procedures, clinical applications and various factors affecting MLR. 20

OR

6. Explain the test procedures, clinical applications and various factors affecting MMN. 20

UNIT– 4

7. Describe the classifications and instrumentation for recording and analyzing OAEs. 20

OR

8. Explain the test procedure, interpretation of OAE results and clinical applications of OAEs. 20

UNIT– 5

9. Explain the need for electronystagmography (ENG) and describe the various subtests of ENG. 20

OR

10. a) Explain the clinical applications of ENG.
    b) Describe the test procedure and interpretation of VEMP. 10+10=20

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BAPSLC 260

Credit Based IV Semester B.A.S.L.P. Examination, April/May 2012
(Credit Based Semester Scheme)
(New Syllabus) (2011-12 Batch)
PAEDIATRIC AUDIOLOGY

Time : 3 Hours

Max. Marks : 100

Note : Answer all the Units.

UNIT-1

1) Describe the embryological development of inner ear with diagram. 20

OR

2) Enumerate the importance of embryological development for audiology practise. 20

UNIT-2

3) Explain the methods of diagnosing hearing loss with reference to conductive and sensori neural hearing loss. 20

OR

4) Describe any two behavioral screening tests. Write with reference to various responses elected. 20

UNIT-3

5) Describe the procedures involved in diagnosing middle ear pathology in children using immittance audiometry. Write the immittance findings with reference to pathologies. 20

OR

6) Enumerate the importance of follow-up visit for auditory diagnosis. What is the criteria for follow up visits in case of neonatal hearing screening ? 20

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P.T.O.

UNIT-4

7) Describe the procedure in estimating hearing sensitivity in neonates.

OR

8) Describe the procedure, interpretation of behavioural observation audiometry. 2

UNIT-5

9) What is functional hearing loss ? Explain any two clinical tests to diagnose functional hearing loss in children.

OR 20

10) Define auditory processing disorder. Write the procedure for a APD screening test for children. 20