FATHER MULLER COLLEGE OF NURSING MANGALORE

Reg. No. | | | | | | | | | |

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BAPSLC 254

Credit Based Fourth Semester B.A.S.L.P. Degree Examination, April/May 2013
(Old Syllabus) (2010-11 and Earlier Batches)
BASIC ELECTRONICS AND ACOUSTICS

Time : 3 Hours Max. Marks : 100

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

UNIT – 1

1. a) Explain Doppler effect. Obtain the expression for the apparent frequency of the sound heard for the following cases.
   i) moving observer, source at rest
   ii) moving source, observer at rest
   iii) both source, observer at rest
   b) Explain the resonance of a mass spring vibrator.
   c) Explain complex vibration and vibration spectra. (10+5+5)

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OR

2. a) What are standing waves ? Explain the modes of vibration of resonance of a vibrating string as standing waves.
   b) Explain the interference, diffraction and absorption of sound wave. (12+8)

UNIT – 2

3. a) Explain the following characteristics of musical sound.
   i) pitch ii) loudness iii) timbre
   b) Define phon and sone. Explain how loudness related to loudness level and sound pressure.
   c) Write a note on air absorption of sound. (10+5+5)

OR

4. a) Explain acoustic feedback and equalization.
   b) Explain loud speaker directivity.
   c) Explain growth and decay of reverberant sound in a room. (10+5+5)

P.T.O.

UNIT – 3

5. a) Explain dynamic microphone and velocity micropone.
   b) Explain electrical energy and power.
   c) Compare Alternating Current (AC) and Direct Current (DC). Give one example each for AC and DC circuit.

OR (10+5+5)

6. a) Explain a single stage RC coupled common emitter transistor amplifier with circuit diagram. With the help of output characteristic of the transistor explain the operation of amplifier circuit.
   b) Explain Ohms law and Kirchoff's law.
   c) Write a note on microphone sensitivity and microphone impedance. (10+6+4)

UNIT – 4

7. a) With relevant diagram, explain the working of an air suspension loudspeaker.
   b) With reference to tape recording, what are the advantages of high frequency bias over DC bias ? What do you mean by tape noise ?
   c) What is an ear phone ? What are its components ? Explain its working. (10+5+5)

OR

8. a) Explain the magnetic tape recording.
   b) Explain the terms baffles and enclosures.
   c) Explain the distortion generated in loudspeaker. (10+5+5)

UNIT – 5

9. a) Explain briefly the Cathode Ray Oscilloscope.
   b) Write a short note on microprocessor.
   c) Explain ammeter and voltmeter.

OR (10+6+4)

10. a) Write short notes on the following instruments
    (i) sound level meter
    (ii) spectrum analyzer
    (iii) the level recorder.
    b) Explain the fabrication of integrated circuits. What are the advantages of integrated circuits over discrete components ? (8+12)

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BAPSLC 257

Credit Based IV Semester B.A.S.L.P. Degree Examination, April/May 2013
(Semester Scheme) New Syllabus (2011-12 Batch and Onwards)
VOICE AND LARYNGECTOMY

Time : 3 Hours Max. Marks : 100

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

Unit – I

1. a) Describe the factors influencing the development of voice. 10
   b) Explain physiological, aerodynamic correlates of normal voice. 10

OR

2. a) Briefly explain endocrine voice disorders. 10
   b) Explain theories of phonation. 10

Unit – II

3. a) Comment on congenital voice disorders. 10
   b) Discuss about non organic voice disorders. 10

OR

4. a) Discuss about the causss, types and clinical symptoms of vocal fold palsy. 10
   b) Explain the role of SLP in neurological voice disorders. 10

Unit – III

5. Explain the assessment protocol for hyperfunctional voice disorders. 20

OR

6. Discuss about the importance of objective evaluation in voice disorders. 20

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Unit – IV

7. What is laryngectomy ? Write on speech characteristics of esophageal speech and tracheo-esophageal speech. 20

OR

8. Write briefly on : (5×4=20)
   a) TEP
   b) Esophageal insufflation test.
   c) Buccal speech
   d) Artificial larynx.

Unit – V

9. Outline the management options for professional voice users with voice problem. 20

OR

10. Explain the various treatment techniques for spasmodic dysphonia. 20

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BAPSLC 258

Credit Based IV Semester B.A.S.L.P. Degree Examination, April/May 2013
(New Syllabus) (2011-12 Batch and Onwards)
MOTOR SPEECH DISORDERS IN CHILDREN

Time : 3 Hours Max. Marks : 100

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

UNIT – 1

1. The UMN and LMN pathways are important for speech motor control. Justify. 20

OR

2. a) Explain the role of cerebellum with a neat diagram. 10
   b) Discuss about the Physiology of CNS. 10

UNIT – 2

3. a) Write a note on communication deficits in children with Cp. 10
   b) Neuro muscular development in children with Cp. 10

OR

4. Describe about primitive reflexes and its assessment in children with Cp. 20

UNIT – 3

5. Explain how speech subsystems are affected in cerebral palsy. 20

OR

6. Short notes on : (5×4=20)
   a) Guillain Barre Syndrome
   b) Duchene Muscular Dystrophy
   c) Worster Drought Syndrome
   d) Myoclonus jerks.

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P.T.O.

UNIT – 4

7. Write an essay on Das with characteristics features. 20

OR

8. a) Facilitation techniques for oral motor movement in Das. 10

b) Differentiate between Cp and Das. 10

UNIT – 5

9. How can you effectively use different types of AAC in the management of motor speech disorders in children ? 20

OR

10. a) Write a note on assessment procedures for the selection of AAC's. 10

b) Recent advances in the AAC systems. 10

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BAPSLC 259

Credit Based IV Semester B.A.S.L.P. Degree Examination, April/May 2013
(New Syllabus) (2011-12 Batch and Onwards)
DIAGNOSTIC AUDIOLOGY (Part – II)

Time : 3 Hours Max. Marks : 100

Instructions : 1) Answer all questions.
2) All questions carry equal marks. (i.e. 20 marks)

UNIT – 1

1. Write an essay on clinical applications of acoustic reflexes. 20

OR

2. With the help of neat diagram explain the working of immittance meter and also write a note on tympanometric width, static admittance and gradient. 20

UNIT – 2

3. Discuss the techniques used to enhance the SNR in ABR recording and also write a note on automated ABR techniques. 20

OR

4. Write an essay on factors affecting ABR. 20

UNIT – 3

5. a) Briefly describe the different stimuli used to elicit ASSR. 10
   b) Write a note on protocol to record MLR. 10

OR

6. Discuss the recording principle and factors affecting LLR, MMN and P300. 20

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UNIT – 4

7. Elaborate on recording principle and application of TEOAEs. 20

OR

8. Write an essay on factors affecting different types of OAEs. 20

UNIT – 5

9. a) With the help of neat diagram, explain the physiology of vestibule ocular reflex. 10

   b) Briefly explain the recording principle, instrumentation and calibration procedure involved ENG. 10

OR

10. Explain in detail about different subtest of ENG that can detect peripheral vestibular lesions. 20

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BAPSLC 260

Credit Based IV Semester B.A.S.L.P. Degree Examination, April/May 2013
(Semester Scheme)
(New Syllabus) (2011-12 Batch and Onwards)
PAEDIATRIC AUDIOLOGY

Time : 3 Hours Max. Marks : 100

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

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Unit – 1

1. Describe the prenatal and neonatal auditory behaviour. 20

OR

2 a) Describe the embryological development of the Human Auditory System. 15

b) Enumerate its importance in audiology practice. 5

Unit – 2

3. a) Explain the importance of early identification of hearing loss. 10

b) Explain the importance of universal hearing screening. 10

OR

4. Describe any two behavioural screening tests with information on the stimulus, procedure, response, interpretation and validation of the test. 20

Unit – 3

5. Explain the mass media screening test and its role in identification of hearing loss in paediatric population. 20

OR

6. Describe the procedure and findings of objective screening tests used in children for identifying hearing loss. 20

P.T.O.

Unit – 4

7. Explain play audiometry and troca. 20

OR

8. Explain : (5×4=20)
   a) Nu-Chip
   b) VASC
   c) WIPI
   d) GASP.

Unit – 5

9. Explain the screening tests for diagnosing auditory processing disorder in children. 20

OR

10. a) Describe functional hearing loss in children. 15
    b) Enumerate its incidence and prevalence. 5