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Credit Based Fourth Semester BASLP Degree Examinations

May 2009

BAPSLC - 251 - VOICE AND LARYNGECTOMY

Time : 3 Hours Max.Marks: 100

UNIT- 1

1. Define voice. Explain development of voice. What are the different factors influencing the development of voice. 20

OR

2. a) Critically evaluate different theories of phonation. 10
   b) What are different issues involved to consider voice as abnormal voice? 10

UNIT- 2

3. Differentially diagnose, hysterical Aphonia from spasmodic dysphonia & diplophonia. 20

OR

4. a) How does vocal abuse or misuse affects voice? 10
   b) What are the different causes of abnormal voice? Classify different voice disorders. 10

UNIT- 3

5. Explain different characteristics of voice in paralysed vocal cords. List different causes, characteristics & management in each type of vocal cord paralyse. 20

OR

6. a) Explain different voice problems seen in old age individuals. 10
   b) What are the different congenital causes of voice disorders? 10

UNIT- 4

7. a) What are different types of resonatory voice disorders? Write a note on management options for resonatory voice disorders. 10
   b) Define Laryngectomy. What are the different types of laryngectomy? Write a note on different causes and symptoms of laryngeal cancer. 10

OR

8. Define laryngectomy. Give causes, types, symptoms and characteristics of laryngeal cancer. 20

UNIT- 5

9. What are the three alaryngeal modes available for individuals with laryngectomy? Discuss the advantages and disadvantages of each type. 20

OR

10. How do you conduct pre-post operative counselling for laryngectomies. 20

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Credit Based Fourth Semester BASLP Degree Examinations

May 2009

BAPSLC - 252 - AMPLIFICATION AND ASSISTIVE LISTENING DEVICES FOR THE HEARING IMPAIRED

Time : 3 Hours Max.Marks: 100

Note : Answer ALL questions.

UNIT- 1

1. a) Write an essay on historical developments of hearing aids. 10
   b) What are frequency transposition hearing aids and what are their uses? 10

OR

2. a) What are different types of hearing aids? Mention their advantages and disadvantages. 10
   b) What are programmable hearing aids? Describe the working principle of digital hearing aids. 10

UNIT- 2

3. a) How do you modify the hearing aid output characteristics with the use of ear moulds? 10
   b) Is there a need to have electro acoustic characteristics specification? Discuss its importance. 10

OR

4. a) Discuss Hardwire and Induction loop systems with merits and demerits. 10
   b) What are couplers and mention the various types used. 10

UNIT- 3

5. a) List briefly the procedure, merits and demerits of functional gain method. 10
   b) Describe the factors to be considered during hearing aid selection. 10

OR

6. a) Compare prescriptive and comparative methods of hearing aid prescription. 10
   b) "Amplification for the aged is challenging" Discuss. 10

UNIT-4

7. a) Explain various schemes that the Govt. of India provide for the persons with hearing impairment. 10
   b) Describe various types of ear moulds with neat diagram. 10

OR

Contd... 2

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8. a) Counselling is an important step in the hearing aid prescription for children - Discuss. 10

b) What is trouble shooting? How would you trouble shoot Body level aid, BTE and ITC? 10

UNIT- 5

9. a) What is mapping? How will you do mapping in a Cochlear implant? 10

b) Describe the candidacy for the Cochlear implant. 10

OR

10. a) Write an essay on assistive listening devices. 10

b) Discuss the role of Audiologist as a team member in a Cochlear implant rehabilitation program. 10

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Credit Based Fourth Semester BASLP Degree Examinations

May 2009

BAPSLC - 253 - DIAGNOSTIC AUDIOLOGY - PART - II

Time : 3 Hours Max.Marks: 100

Note : Answer ALL questions.

UNIT- 1

1. Describe on the term Evoked Response Audiometry. What are the factors that affect ERA? 20

OR

2. Write short notes on : 5x4=20
   a) ECOG
   b) Classification of auditory evoked potentials
   c) LLR
   d) L-I Functions

UNIT- 2

3. What are otoacoustic emission? Mention its origin, types, instrumentation to record otoacoustic emissions. 20

OR

4. List out vestibular function tests. Explain briefly on ENG and its test procedures, interpretation and artifacts. 20

UNIT- 3

5. What are the behavioural symptoms of psuedohypoacusis? Describe any one test that can bedone to detect unilateral psuedohypoacusis. 20

OR

6. Write short note on. 5x4=20
   1) Lombard test 2) Stenger test
   3) ABR and psuedohypoacusis 4) Variable pulse count method

UNIT-4

7. What is central auditory processing tests? Describe any two tests of binaural fusion. 20

OR

8. Briefly explain on : 5x4=20
   a) Pitch pattern test b) Filtered speech test
   c) Staggered spondee word test d) MLD

UNIT- 5

9. What is the need for test battery approach in Auditory diagnosis and integration of results of audiological tests. 20

OR

10. Describe in detail the indications for administering audiological tests to identify Cochlear pathology, Refrocochlear pathology, Functional hearing loss and central auditory processing disorder. 20

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BAPSLC 254 S1 Reg. No.

Credit Based Fourth Semester BASLP Degree Examination
May 2009
BAPSLC 254 : ELECTRONICS & ACOUSTICS

Max. Marks: 100 Time : 3 hours

UNIT - 1

1. a) Explain the vibratory motion of the flowing simple vibrating systems.

(i) Simple pendulum (ii) A spring in air (iii) A Helmholtz resonator

Write the expression for frequency of vibration with symbols / notations explained. (14)

b) Compare longitudinal waves and transverse waves. Write the expression for the speed of sound of longitudinal waves and transverse waves in a solid with notations / symbols explained. (6)

OR

2. a) What are standing waves ? Explain the modes of vibration of resonances of a vibrating string as standing waves. (12)

b) Write short notes on harmonies, overtones and partials. (6)

c) Explain the term acoustic impedance. (2)

UNIT - 2

3. a) What do you understand about physical and psycho-physical scales for musical sound ? Give examples. Explain the following characteristics of musical sound.

(i) pitch (ii) loudness (iii) timbre (10)

b) What are the criteria for good acoustics of a hall ? Explain the subjective attributes of musical acoustic quality that can be related to concert hall acoustics. (10)

OR

4. a) Explain the terms - reverberation, time of reverberation and standard time of reverberation. Based on Sabine's formula for reverberation time, how do you calculate the reverberation time for a hall ? (14)

b) Explain the waveform & amplitude spectrum for square wave and saw tooth wave. (6)

UNIT - 3

5. a) Explain with relevant circuit diagram the principle and working of a half wave rectifier. Write the waveforms for the input at the rectifier and output from the rectifier. (10)

Contd... 2

b) Explain electrical energy and power with their units in SI system. (4)

c) Compare alternating current (AC) and direct current (DC). Give one example each for AC and DC circuit. (6)

OR

6. a) What are the different types of filters ? Explain how suitable combination of inductor (L) and capacitor (C), a band pass filter can be constructed. Give the expression for resonance frequency of a band pass filter. (8)

b) What is transducer ? With suitable diagram, explain the working of a dynamic microphone. (8)

c) What are the three commonly used methods for rating the microphone sensitivity ? Give the formula for calculating sensitivity using the above methods. (4)

UNIT - 4

7. a) With relevant diagram, explain the working of a air suspension loudspeaker. (10)

b) With reference to tape recording, what are the advantages of high frequency bias over DC bias ? What do you mean by tape noise? (6)

c) What is an ear phone ? What are its components ? Explain its working. (4)

OR

8. a) Define loudspeaker efficiency. Explain how the loudspeaker efficiency is measured. What are the factors upon which the loudspeaker efficiency depends? (8)

b) Write short notes on (i) CD-ROM recording (ii) baffles and enclosures (8)

c) Write a note on AM/FM tuners. (4)

UNIT - 5

9. a) Write short notes on the following instruments (i) function generator (ii) distortion analyzer (iii) frequency counter. (8)

b) Explain the fabrication of integrated circuits. What are the advantages of integrated circuits over discrete components? (12)

OR

10. a) With the help of a neat diagram, explain the working of a cathode ray oscilloscope. 12

b) Write short notes on the following instruments (i) sound level meter (ii) spectrum analyzer (iii) the level recorder. (8)

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Credit Based Fourth Semester BASLP Degree Examinations

May 2008

BAPSLC - 254 -Electronics and Acoustics

Time : 3 Hours Max.Marks: 100

Note : Answer All questions

UNIT- I

1. a. Explain Doppler effect. Obtain expressions 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 and observer move through the transmitting medium
   Explain the significance of Doppler shift in acoustics. 14

   b. Write a note on harmonics and overtones. 6

OR

2. a. Explain interference of sound waves. 6

   b. Explain the concept of resonance. With necessary theory explain the working of Helmoltz resonator. 14

UNIT- II

3. a. Give an account of anechoic sound isolated rooms. 5

   b. Explain the terms; reverberation, time of reverberation and standard time of reverberation. Mention the factors on which reverberation depends. 5

   c. Based on Sabine's formula for reverberation time, how do you calculate the reverberation time for a hall ? 10

OR

4. a. Define the following
   (i) decibel sound pressure level (ii) phon (iii) sone 9

   b. Explain with examples, how the total SPL that results by combining sources of
   (i) equal intensity (ii) unequal intensities, are calculated. 11

UNIT- III

5. a. Define energy and power with proper units in SI system. 4

   b. Express the sensitivity of the microphone in terms of voltage output and power output. 6

   c. With a neat circuit diagram, explain the construction and working of a single stage RC coupled common emitter transistor amplifier with voltage divider bias. 10

OR

Contd... 2

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6. a. Mention different types of transducers. With relevant diagrams explain the working of unidirectional microphone. 12

   b. Write short notes on ac & dc power supplies. 8

UNIT- IV

7. a. With the help of a neat diagram explain the construction and working of air suspension loud speaker. Explain baffles and enclosures. 12

   b. Write a note on harmonic distortion and transient distortion. 8

OR

8. a. With relevant diagrams, explain how does a tape recorder system works. 10

   b. What is a hearing aid? Mention different types of hearing aids. 05

   c. Write short noted on digital tape recording. 05

UNIT- V

9. a. List the advantages of Integrated circuities (IC's) over discrete components. 05

   b. Explain how the integrated circuit are fabricated. 05

   c. With a neat diagram explain the working of cathode ray oscilloscope. 10

10. a. Give the block diagram of a multimeter. Explain in detail how a multimeter can used to measure current, voltage and resistance. Mention the merits and demerits of portable multimeter. 12

    b. Write a note on 08

       i) frequency counter

       ii) sound level meter

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