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Reg. No.

BAPSLC 358

Credit Based VI Semester B.A.S.L.P. Degree Examination,
April/May 2013
(New Syllabus) (2012-13 Batch)
NOISE MEASUREMENT AND HEARING CONSERVATION

Time : 3 Hours Max. Marks : 100

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

UNIT – I

1. Describe the histopathological findings in noise induced hearing loss. Explain the audiological findings for the same. 20

OR

2. What is noise ? How is noise classified ? Explain the auditory effects of noise. 20

UNIT – II

3. Write the contributions of OAE and speech audiometry in the evaluations of noise induced hearing loss. 20

OR

4. Discuss the importance of pure tone audiometry in NIHL and also briefly describe the various tests available for susceptibility. 20

UNIT – III

5. Write a detailed method to measure noise in the community. 20

OR

6. Describe in detail how would you carry out the noise measurement for the purpose of hearing conservations in an industrial set up. 20

P.T.O.

UNIT – IV

7. Describe different procedures to measure the attenuations characteristics of hearing protective devices. 20

OR

8. Describe the different steps involved in hearing conservation program. What are the active hearing protective devices and what are its advantages ? 20

UNIT – V

9. Write about : (5×4=20)

a) DRC b) OSHA c) AMA d) AAOO

OR

10. What is DRC ? Briefly explain the DRC that is followed in India. Describe the two methods to calculate the percentage of hearing handicap. 20

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BAPSLC 357

Credit Based VI Semester B.A.S.L.P. Degree Examination, April/May 2013
(New Syllabus) (2012-13 Batch)

NEUROGENIC LANGUAGE DISORDERS IN ADULTS

Max. Marks : 100

Time : 3 Hours

Instructions : Answer all questions.
All carry equal marks.

UNIT – 1

1. Describe the neuroanatomy of language. Add a note on circle of Willis. 20

OR

2. Discuss the role of sub-cortical structures in language processing. 20

UNIT – 2

3. Define Aphasia. Highlight the language characteristics of Broca's and Wernicke's aphasia. 20

OR

4. Justify the need to classify aphasia. Elaborate on Boston classification of aphasia. 20

UNIT – 3

5. Discuss the applications of electrophysiological and neuroimaging techniques in understanding language-lesion relationships. 20

OR

6. Discuss the bedside aphasia examination. Describe any one commonly used assessment tool to differentially diagnose aphasia syndrome. 2

P.T.

UNIT – 4

7. Describe the characteristics of RHD. Highlight the assessment procedures in RHD. 20

OR

8. a) Write on primary progressive aphasia. 10
   b) Write on literacy and aphasia. 10

UNIT – 5

9. Describe the general principles and strategies used in the treatment of Aphasics. Discuss any 2 therapy approaches in detail. 20

OR

10. List the contributing factors for spontaneous recovery and explain the role of family members in implementing AAC. 20

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UNIT – 4

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UNIT – 5

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OR

10. List the contributing factors for spontaneous recovery and explain the role of family members in implementing AAC. 20

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BAPSLC 359

Credit Based VI Semester B.A.S.L.P. Degree Examination, April/May 2013
(New Syllabus) (2012-13 Batch)
BASIC STATISTICS

Time : 3 Hours Max. Marks : 100

Instruction : *Answer all the questions.*

UNIT – I

1. a) Define "statistics" and discuss the importance of statistics in research. 10

   b) What are the applications of statistics as numerical data and science of statistical methods ? 10

OR

2. a) What are the five stages in a statistical study ? Explain. 10

   b) Explain the importance of descriptive and inferential statistics in research. 10

UNIT – II

3. a) Distinguish between primary and secondary data. Discuss any three methods of collecting primary data. 10

   b) Explain the different scales of measurement with example. 10

OR

4. a) What do you understand by classification of statistical data ? Point out the objectives, importance and various methods of classifying data. 10

   b) Define graph. What are the advantages of graphic presentation ? Explain frequency curve. 10

P.T.O.

UNIT – III

5. a) Define mean and median. Discuss the merits and demerits of mean and median. 10

   b) Calculate mean and standard deviation for the following data : 10

Age	0 –10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
No. of Persons	15	15	23	22	25	10	5	10

OR

6. a) Define measures of variation. What are the properties of a good measure of variation ? 10

   b) Calculate mean and median for the following data : 10

Class Interval	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100	Total
Frequency	8	7	12	5	3	35

UNIT – IV

7. a) State the general properties of normal distribution. 8

   b) Following are the scores on a test of auditory sequential memory. Find Karl Pearson's coefficient of skewness and comment :
   7, 5, 4, 4, 6, 8, 10, 4, 9, 5. 12

OR

8. a) Briefly explain Skewness and Kurtosis. 10

   b) What is nonparametric statistics ? What are the advantages of nonparametric statistics over parametric statistics ? What are the uses of normal distribution ? 10

UNIT – V

9. a) Discuss different methods of computing correlation. 10

   b) What is hypothesis ? What are the two types of hypothesis ? Explain 't' test. 10

OR

10. a) Calculate Spearman's coefficient of rank correlation for the following data of scores in psychological tests (x) and arithmetical ability (y) of 10 children. 10

Child	A	B	C	D	E	F	G	H	I	J
x	105	104	102	101	100	99	98	96	93	92
y	101	103	100	98	95	96	104	92	97	94

b) Explain the following :

i) Null and alternative Hypothesis

ii) Type – I and Type – II error

iii) Level of significance and power of the test. 10

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BAPSLC 360

Credit Based VI Semester B.A.S.L.P. Degree Examination, April/May 2013
(New Syllabus) (2012-13 Batch)

SCIENTIFIC ENQUIRY IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY

Time : 3 Hours Max. Marks : 100

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

UNIT – I

1. Justify the need for scientific enquiry in Speech and Hearing. 20

OR

2. Describe the important steps in planning a research study for understanding causes of hearing impaired. 20

UNIT – II

3. Write short notes on : (4×5=20)
   a) Rating scales.
   b) Group data.
   c) Objective measure.
   d) Instrumental measure.

OR

4. Describe common measurement procedures used in speech language pathology. 20

UNIT – III

5. Write short notes on : (4×5=20)
   a) Random sampling.
   b) Ordinal scales.
   c) Null Hypothesis.
   d) Stratified sampling.

OR

6. What are the different methods of data collection ? Describe with examples. 20

P.T.O.

UNIT – IV

7. Write short notes on : (4×5=20)
   a) Dependent variable.
   b) Independent variable.
   c) Researcher bias.
   d) Validity and Reliability.

OR

8. Write short note on : (4×5=20)
   a) Bivariate experiments.
   b) Measuring client satisfaction.
   c) Behavioural measures.
   d) Single case design.

UNIT – V

9. What are the components of a scientific research article ? 20

OR

10. Describe the importance of tables and graphs on documenting research. 20