MANIPAL UNIVERSITY

SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: BASIC STATISTICS AND RESEARCH METHODS IN SPEECH LANGUAGE PATHOLOGY AND AUDIOLOGY

Wednesday, December 10, 2008

Time: 10:00 – 13:00 Hrs.
Max. Marks: 80

✍ **Answer ALL the questions**

1. Define the various scales of measurement with their properties. Give one example each.

(10 marks)

2A. Define: i) population ii) sample iii) parameter
iv) statistic v) probability sampling vi) non probability sampling

2B. The following is data obtained from a study on physical endurance score based on several exercise routines.
254, 182, 180, 198, 222, 165, 220, 232, 214, 218, 169, 191, 251, 188, 210, 188, 190, 187, 194, 187, 194, 222, 201, 195, 191, 213, 187, 124, 206, 195, 192, 235, 135, 151, 134, 206, 227, 175, 252, 172, 204, 199, 173, 240, 239, 204, 218, 175, 234, 205.
   i) Prepare a frequency distribution of the above data with class intervals 120 – 129, 130 – 139, 140 – 149, etc.
   ii) Depict the frequency distribution obtained above using appropriate graph.

(6+(4+5) = 15 marks)

3A. Describe briefly the different measures of variation with the merits and demerits.

3B. In a study of fingerprints an important quantitative characteristic is the total ridge count for the 10 fingers of an individual. Suppose that the total ridge counts of individuals in a certain population are approximately normally distributed with a mean of 140 and a standard deviation of 50. Find the probability that an individual picked up at random from this population will have a ridge count:
   i) Of 190 or more
   ii) Less than 90
   iii) Between 90 and 240?

3C. Define correlation. How do you measure correlation? What are the properties of the measure of correlation?

(10+6+5 = 21 marks)

4A. What is health information system (HIS)? What are the components of HIS?
4B. Define: i) Rate ii) Ratio iii) Proportion iv) Incidence
4C. The mid-year population of a village for the year 2004 was 80,000. There were a total of 1600 births in the same year in the village. A total of 80 infants died during the year 2004. Calculate the crude birth rate and infant mortality rate and give your comments.

((1+4)+4+(2+2+1) = 14 marks)

5. Briefly describe the descriptive epidemiological methods.

(10 marks)

6A. Enumerate the steps involved in research process.
6B. Write short notes on reliability and validity.

(5+5 = 10 marks)

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SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: ARTICULATION AND PHONOLOGICAL DISORDERS (B.2.1.3)

Thursday, December 11, 2008

Time: 10.00-13.00 Hrs.   Max. Marks: 80

✍ **Answer any FIVE. Question no. 7 is compulsory.**

1A.   With diagrams, describe the anatomy of soft palate.

1B.   Write a note on passavant's ridge.

(10+6 = 16 marks)

2.   How would you perform an oral speech mechanism examination? What is its importance?

(16 marks)

3.   Describe the nature of feeding problems in infants with cleft lip and palate. How would you counsel the parents regarding the management of infants with cleft lip and palate?

(16 marks)

4.   Describe the phonological processes seen in 3year old normally developing child.

(16 marks)

5.   What is speech perception? Describe the theories of speech perception.

(16 marks)

6A.   List the criteria used to select the target sounds for articulation therapy.

6B.   Describe the short term goals and activities for achieving the goals in cases with misarticulation.

(4+12 = 16 marks)

7.   Write short notes on any **FOUR**:

7A.   Suprasegmentals.

7B.   Nasal Flutter test.

7C.   Pattern analysis.

7D.   Effect of glossectomy.

7E.   Treacher Collins syndrome.

(4×4 = 16 marks)

MANIPAL UNIVERSITY

SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: VOICE AND LARYNGECTOMY (B.2.1.4)

Friday, December 12, 2008

Time: 10.00-13.00 Hrs.   Max. Marks: 80

✍   **Question No. 6 is compulsory. Answer any FOUR from the rest.**

1A. What are the characteristics of good voice?

1B. Critically evaluate the myoelastic aerodynamic theory of voice production.

1C. Describe the various causes of voice disorders.

<div align="right">(6+6+4 = 16 marks)</div>

2A. Who are professional voice users?

2B. What is the need to educate them on voice use and care?

2C. What are your recommendations to a professional singer regarding voice care?

<div align="right">(4+4+8 = 16 marks)</div>

3A. List the different factors that can influence to develop voice problems.

3B. Elaborate on therapeutic approaches for hyperfunctional voice disorders.

<div align="right">(4+12 = 16 marks)</div>

4. Describe the voice characteristics of spasmodic dysphonia. Add a note on its differential diagnosis and management.

<div align="right">(16 marks)</div>

5. What are the cardinal signs and symptoms of throat cancer? List the different surgical procedures employed with laryngeal cancer patients. Add a note on the counseling strategies with these patients.

<div align="right">(16 marks)</div>

6. Write short notes on any **FOUR**:

6A. Infant cry analysis.

6B. Sixteen mass model.

6C. MDVP.

6D. Vocal cord paralysis.

6E. SERVOX.

<div align="right">(4×4 = 16 marks)</div>

MANIPAL UNIVERSITY

SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008
SUBJECT: DIAGNOSTIC AUDIOLOGY (B.2.2.2)

Saturday, December 13, 2008

Time: 10.00-13.00 Hrs.   Max. Marks: 80

✍ **Answer any FIVE questions. Question no. 6 is compulsory.**

1. Elaborate on factors affecting speech audiometry.

(16 marks)

2. Describe the various types of tympanograms and discuss in which middle ear conditions are they observed.

(16 marks)

3. For a person with suspected RCP, select any four best behavioral tests according to you for differential diagnosis - justify. Explain the test principle, procedure and interpretation.

(16 marks)

4. Explain the various techniques used for improving SNR in ABR.

(16 marks)

5. Explain the CAPD tests used for evaluation of brainstem function and critically evaluate these tests.

(16 marks)

6. Write short notes on any **FOUR** of the following:
6A. TEOAE
6B. Doerfler Stuart test
6C. Delayed Auditory feed back
6D. Caloric test
6E. Brief tone audiometry.

(4×4 = 16 marks)

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SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: CHILDHOOD COMMUNICATION DISORDERS (B.2.1.2)

Monday, December 15, 2008

Time: 10.00-13.00 Hrs.   Max. Marks: 80

✍ **Question No 1 is compulsory. Answer any FOUR out of the rest.**

1A. Differentiate between the following:
   i)   Nativistic Vs Empiricist theories of language acquisition
   ii)   PDD Vs ADHD
   iii) REELS Vs 3DLAT
   iv)   Top-Down Vs Bottom-Up models of information processing

1B. Explain the causes of Mental Retardation.

$$((2×4)+8 = 16 \text{ marks})$$

2. Describe SLI with its causes and linguistic and non-linguistic features. Explain the language therapy approaches for children with SLI.

$$(10+6 = 16 \text{ marks})$$

3. What are language acquisition theories? Explain any one of the comprehensive theories of language acquisition.

$$(4+12= 16 \text{ marks})$$

4. What are Pervasive Developmental Disorders? Explain the variants of PDD with their characteristic features.

$$(6+10 = 16 \text{ marks})$$

5. Write short notes on any **FOUR**:
5A. Scaffolding
5B. Milieu Teaching
5C. Language development in visually impaired
5D. GARS

$$(4×4 = 16 \text{ marks})$$

6. Describe AAC types and its application in childhood language disorders. Explain the candidacy for AAC.

$$(10+6 = 16 \text{ marks})$$

7. Define Dyslexia with its causes and characteristic features. Explain the formal and informal assessment measures for dyslexia.

$$(8+8 = 16 \text{ marks})$$

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SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008
SUBJECT: AMPLIFICATION AND ASSISTIVE DEVICES FOR THE HEARING IMPAIRED (B.2.2.3)
Tuesday, December 16, 2008

Time: 10.00-13.00 Hrs.   Max. Marks: 80

✍ **Answer any FIVE question: Question no: 1 is compulsory:**

1.   Write short notes on:
1A. Frequency transposition aids
1B. Speech banana
1C. Tubing
1D. Volume control

(4×4 = 16 marks)

2A. List the merits and demerits of cochlear implants.
2B. What are BC aids?
2C. When do you recommend CROS?

(8+4+4 = 16 marks)

3A. Define compression. Describe the static and dynamic properties of compression.
3B. Describe the different types of captioning methods available for the hearing impaired.

(8+8 = 16 marks)

4A. Differentiate: Analog Vs Digital aid
                    BTE Vs Body level aid
4B. Say True or False. Justify your answer
    i)   Hearing aid meets all the requirement of the hearing impaired.
    ii)   Squeal in a hearing aid is obtained when the distance between mic and the receiver is placed at a large distance.
    iii) Electro-acoustic measurements in hearing aids are done to find the gain of the hearing aids.
    iv)   Insertion gain is the difference between REUR – REOR

((4×2)+(2×4) = 16 marks)

5.   How would you select a hearing aid for a 2year old nonverbal child?

(16 marks)

6A. List the merits and limitations of using speech stimuli in hearing aid selection.
6B. "Children with bilateral hearing loss should always be provided with binaural aid". Discuss.

(8+8 = 16 marks)

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MANIPAL UNIVERSITY
SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008
SUBJECT: EDUCATIONAL AUDIOLOGY (B.2.2.4)
Wednesday, December 17, 2008

Time: 10.00-13.00 Hrs.   Max. Marks: 80

✍ **Question number 1 is compulsory. Answer any FOUR of the other questions.**

1.   Write short notes on any **FOUR** of the following:
1A.   Classification of hearing handicap
1B.   Total communication
1C.   Computer aided method
1D.   Day school Vs Residential school
1E.   Classroom acoustics.

                                                                (4×4 = 16 marks)

2.   Define aural rehabilitation. What are the goals of aural rehabilitation?
OR
What is early identification and what's its importance in aural rehabilitation?

                                                                (16 marks)

3.   Describe:
3A.   Cued speech
3B.   Rochester method
3C.   Indian sign language
3D.   American sign language.

                                                                (4×4 = 16 marks)

4.   Differentiate aural rehabilitation and aural habilitation. Is aural rehabilitation different for adults and children? Discuss.

                                                                (16 marks)

5A.   What are the different educational options available for hearing impaired population?
5B.   What are the criteria for recommending the various educational placements?

                                                                (8+8 = 16 marks)

6A.   What is pre-school training program for hearing impaired population?
6B.   Discuss the need for pre-school training program.

                                                                (8+8 = 16 marks)

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MANIPAL UNIVERSITY

SECOND YEAR B.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: OTORHINOLARYNGOLOGY AND COMMUNITY ORIENTED PROFESSIONAL
PRACTICES IN SPEECH LANGUAGE PATHOLOGY / AUDIOLOGY (B.2.3.5)

Thursday, December 18, 2008

Time: 10.00-13.00 Hrs.   Max. Marks: 80

✐   Answer Section "A" and Section "B" in separate answer books.

SECTION "A" – OTORHINOLARYNGOLOGY : 40 MARKS

1.   Describe the complications of CSOM.

          OR

Describe the physiology of hearing.

                                                                (10 marks)

2.   Write short notes on any **SIX**.
2A. Vocal polyp
2B. Rhinolalia aperta
2C. Ototoxicity
2D. Choanal atresia
2E. Laryngomalacia
2F. Pharyngeal pouch
2G. Adenoid Facies.

                                                           (5×6 = 30 marks)

SECTION "B"–COMMUNITY ORIENTED PRACTICES IN SPEECH LANGUAGE PATHOLOGY / AUDIOLOGY : 40 MARKS

✐   Answer THREE questions in all. Question 3 is compulsory.

3.   Write short notes on (any **TWO**):
3A. Public education strategies in India.
3B. Role of the Professional as an expert witness.
3C. CBR.
3D. Preventive measures.

                                                           (5×2 = 10 marks)

4.   Explain the concept of "Team Approach" in Rehabilitation. What are the features of a well
functioning team?

                                                           (15 marks)

5.   What the different areas of functions covered under the PWD Act, 1995?

                                                           (15 marks)

6.   Explain the role of RCI in developing manpower for the rehabilitation sector.

                                                           (15 marks)