I Semester MASLP Examination, December 2019
(Scheme : CBCS)
SPEECH AND HEARING (HC)
Research Methods & Statistics in Speech Language & Hearing

Time : 2 Hours   Max. Marks : 50

Instruction :   Attempt all questions.

I.   *Q1)* Citing examples from the field of speech language or Audiology describe
         the following.   [15]

     a)   Standard group comparison

     b)   Ex-port facto research.

                            OR

     Q2) a)   Describe the various types of validity checks.   [7]

         b)   Write a note on different types of quasi experimental designs. [8]

II. *Q3)* Write an essay on the general principles & standards of reading & writing
         research reports.   [10]

                            OR

     Q4) What are the different types of true experimental designs? Elaborate with
         examples.   [10]

III. *Q5)* a)   What are the various methods used to analyze correlation &
              regression? Give few examples.   [8]

         b)   Differentiate between ANOVA & MANOVA.   [7]

                            OR

Q6) Write a note on: [5 × 3 = 15]

    a)   Cluster analysis.

    b)   Independent t-test

    c)   Post-hoc tests

IV. *Q7)* a)   When & on what types of data do you apply Kruskal - Wallis test & Friedman's test?   [6]

    b)   Describe Chi square test & state when it is used, citing examples from the field of speech language or hearing.   [4]

<div align="center">OR</div>

Q8) Write a note on :   [10]

    a)   Parametric versus Non parametric tests.

    b)   Correlation versus regression.

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I Semester I Year M.Sc. (SLP) Examination, December – 2019
(Scheme CBCS)
SPEECH LANGUAGE PATHOLOGY
Neuroscience of Speech and Language (HC)

Time : 2 Hours   Max. Marks : 50

Instruction: Answer all questions.

I.   1)   a)   Illustrate the classification of nervous system with the help of a block diagram.   **[5]**

          b)   Drawing evidences from research, discuss the role of cerebellum in non-motor functions.   **[10]**

                              OR

     2)   a)   Describe with a neat sketch and label, the structural and functional organization of any two lobes in the cerebral hemisphere.   **[10]**

          b)   Discuss with relevant examples from your clinical practice, synaptic pruning and neuroplasticity.   **[5]**

II. 3)   Explain in detail one of the non-invasive methods of neuroimaging. Highlight its significance in clinical practice in speech language pathology.   **[10]**

                              OR

     4)   Delineate the advantages and disadvantages of behavioral measures and electrophysiological measures for speech and language.   **[10]**

III. 5)   'Neurotransmitters are the essential components for understanding the neuroscience of speech and language'. Support the statement with suitable examples.   **[10]**

                              OR

     6)   Write in brief on any TWO of the following: **[5 + 5 = 10]**

          i)   Amino acids   ii)   Monamines

          iii) Peptides

P.T.O.

IV. 7) Write in brief on.   **[5 × 3 = 15]**

       i)   Neurophysiological changes with ageing.

       ii)   Cerebral asymmetry and ageing.

       iii)   Physiology of speech with ageing.

<div align="center">OR</div>

    8) Discuss the differentiating features of normal ageing and pathological ageing with reference to communication behaviour.   **[15]**

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I Semester M.Sc. (SLP) Ist Year Examination, December - 2019
(Scheme : CBCS)
SPEECH LANGUAGE PATHOLOGY
Speech Production

Time : 2 Hours   **Max. Marks : 50**

Instruction :   *Answer all questions.*

I. 1 a) Explain the various lung volumes and capacities.   **[5]**

   b) Discuss the airway dynamics for vowels, stops and fricatives.   **[5]**

<div align="center">OR</div>

2 Elaborate on the instrumentation for air pressure, volume and flow measurements.   **[10]**

II. 3 a) Discuss the limitations of the source filter theory of Speech Production.   **[10]**

   b) Explain the Analog - to - Digital conversion and filtering with reference to speech acoustics.   **[5]**

<div align="center">OR</div>

4 a) Discuss any two frequently used softwares for acoustic analysis.**[10]**

   b) Briefly write on : Autocorrelation, LPC, FFT, Cepstrum and Inverse filtering.   **[5]**

III. 5 a) Discuss the classification and acoustic characteristics of vowels with illustration.   **[10]**

   b) Explain the significance of temporal characteristics of plosives.**[5]**

<div align="center">OR</div>

<div align="right">***P.T.O.***</div>

6   a)   Nasals are sonorants. Discuss   **[5]**

    b)   Compare and contrast affricates and approximants.   **[5]**

    c)   Enumerate the acoustic effects of speaker.   **[5]**

IV. 7 a)   Discuss the acoustic characteristics of speech of persons with
              hearing impairment.   **[5]**

       b)   "Infant cry Analysis as a quick tool for identification of high risk
            babies". Comment.   **[5]**

<div align="center">OR</div>

8   a)   Discuss the acoustic characteristics of normal infant cries.   **[5]**

    b)   Highlight the role of speech synthesis in understanding normal
         speech production.   **[5]**

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I Semester I Year M.Sc. (SLP) Examination, December - 2019
(Scheme : CBCS)
SPEECH LANGUAGE PATHOLOGY
Child Language Disorders

Time : 2 Hours   Max. Marks : 50
Instructions: Answer all the questions.

I.   1)   Critically evaluate Biological maturation theory of language acquisition.[10]

OR

2)   a)   Explain in brief the applications of dual route cascaded model. [5]

b)   Explain in brief the cognitive - linguistic variables in second language acquisition.   [5]

II.   3)   a)   Describe the linguistic characteristics in children with intellectual disability and specific language impairment.   [10]

b)   Explain in brief the precedic characteristics in children with hearing impairement.   [5]

OR

4)   Describe the linguistic and literacy characteristics in children with hearing disability.   [15]

III.   5)   a)   Briefly explain LPT assessment tool used in assessing children with language disorders.   [5]

b)   Briefly explain LARSP used in the profiling of children with language disorders.   [5]

c)   Write a note on the screening tools used in child language disorders.
                                                                                       [5]

P.T.O.

OR

6) a) Explain in detail the importance of differential diagnosis in child language disorders.   **[10]**

    b) What is the relevance of neuro imaging techniques in child language disorders? Explain one of the techniques.   **[5]**

IV. 7) a) Explain in brief the general principles in the management of child language disorders.   **[5]**

    b) What is evidence based practice?   **[3]**

    c) What is meant by response to intervention?   **[2]**

OR

8) Explain in detail the importance of team approach in the management of child language disorders.   **[10]**

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