

**QP Code:**

**Reg. No.....**

**First Year MASLP Degree Examinations**

**Advances in Speech Sciences**

**(2016 Scheme)**

**(Model Question Paper)**

**Time:3 hours**

**Max Marks:80**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5 x 16=80)**

1. Explain the neuromotor mechanism of articulatory and resonatory system
2. Explain the acoustics of stops, vowels, fricatives, nasals (4+ 4+4+4)
3. Justify perceptual analysis is the gold standard in speech analysis. Add a note on EMMA and MFCC (8+8)
4. Explain speech analysis in forensic sciences
5. Explain the acoustics of laughter using spectrographic patterns

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**QP Code:**

**Reg. No.....**

**First Year MASLP Degree Examinations**

**Auditory Physiology**

**(2016 Scheme)**

**(Model Question Paper)**

**Time:3 hours**

**Max Marks:80**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5 x 16=80)**

1. Explain the role of external ear in human beings and other animals. Explain temporal bone anatomy. (8+8)
2. Critically evaluate middle ear transformer action. Discuss the non-acoustic reflex pathway and its clinical relevance. (10+6)
3. Explain the role of cochlear fluids in hearing. Cochlear function is not linear: discuss. (8+8)
4. Explain vestibule spinal and vestibule ocular reflex.
5. Discuss the intensity coding at afferent auditory pathway. Explain how efferent pathway alter the functions of brainstem structures (8+8)

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**QP Code:**

**Reg. No.....**

**First Year MASLP Degree Examinations**

**Clinical Linguistics**

**(2016 Scheme)**

**(Model Question Paper)**

**Time:3 hours**

**Max Marks:80**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5 x 16=80)**

1. Define discourse and explain the importance of discourse analysis in communication disorder.
2. Define neurolinguistics and discuss its scope in speech language pathology
3. Discuss the factors affecting language acquisition in bi- and multilingual environments.
4. Discuss the issues in sociolinguistics. Add a note on creole and pidgins. (8+8)
5. Discuss about the multicultural and multilingual issues in rehabilitation of communication disorders in India.

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**QP Code:**

**Reg. No.....**

**First Year MASLP Degree Examinations**

**Psychophysics of Audition**

**(2016 Scheme)**

**(Model Question Paper)**

**Time:3 hours**

**Max Marks:80**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5 x 16=80)**

1. Describe the signal detection theory.Explain its clinical applications.
2. Discuss the concept of critical band and auditory filters.Estimate the shape of auditory filters.
3. Compare and contrast adaptation and fatigue. Discuss the various parameters affecting adaptation.
4. Describe the theories of pitch perception.Explain pitch perception in pathological ears. (10+6)
5. Differentiate between localization and lateralization.Describe in detail the cues for localization. (6+10)

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**QP Code:**

**Reg. No.....**

**First Year MASLP Degree Examinations**

**Speech and Language Processing**

**(2016 Scheme)**

**(Model Question Paper)**

**Time:3 hours**

**Max Marks:80**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5 x 16=80)**

1. Explain how the sound /d/ differentiated from /t/ spectrographically. Describe the salient cues for identifying various consonants.
2. Describe the stages of spoken word recognition. Use logogen model to explain the processing of the word "Sunday" (8+8)
3. Explain lexical decision task.Explainhow it is used for identification of word and non-word. Quote any two recent studies using the same method (4+12)
4. Explain sentence parsing. Elaborate on various issues of parsing and strategies to resolve sentence ambiguity
5. Describe Baddley's model of working memory. Elaborate on the role of attention and memory in speech perception.

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QP Code:

Reg. No.....

**First Year MASLP Degree Examinations**

**Statistics and Research Methods**

**(2016 Scheme)**

**(Model Question Paper)**

**Time:3 hours**

**Max Marks:80**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5 x 16=80)**

1. Explain normal distribution and its deviations and describe the conditions of application in the field of communication disorders
2. Define correlation. Explain the various types of correlation with examples.  
Calculate the rank correlation and interpret its meaning from the following data

Audiology	54	78	31	36	44	69	29	91	60
Speech language pathology	57	70	45	40	42	76	24	95	58

3. Define analysis of variance. Mention the implications of analysis of variance in research particularly in the field of speech and hearing
4. Describe the types of variables found in research studies. Mention suitable examples to illustrate variables
5. Define sampling and mention the types of sampling and explain the principle of randomization

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**QP Code:**

**Reg. No.....**

**First Year MASLP Degree Examinations**

**Voice and Fluency Disorders**

**(2016 Scheme)**

**(Model Question Paper)**

**Time:3 hours**

**Max Marks:80**

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(5 x 16=80)**

1. Explain various perceptual and instrumental evaluation procedures for various voice disorders.
2. Elaborate upon the intrinsic muscles of larynx. Briefly explain various acoustic, physiological and aerodynamic aspects of Parkinson's disease and quote recent studies.
3. Discuss the most preferred method of a laryngeal speech. Support your answer using reasons and evidences.
4. Define stuttering as a motor speech disorder. Support your answer with recent advances and findings. How to differentially diagnose developmental stuttering from neurogenic stuttering. (12+8)
5. "Evidence based practice should be followed in management of fluency disorders" justify. Briefly outline the efficacy and outcome measures of stuttering therapy.

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