

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2018**

**SUBJECT: SH 203 – CLINICAL PHONOLOGY AND MOTOR SPEECH DISORDERS**  
**(NEW REGULATION)**

Friday, June 01, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

1A. Elaborate on the physiological studies of coarticulation.

1B. Explain the theory of feature spreading.

(10+6 = 16 marks)

**OR**

2A. Discuss the phonological processes seen in any two communication disorders with the literature support.

(8 marks)

2B. Explain:

i) Phonotactic skills

ii) Metalinguistic abilities in relevance to phonology

(4 marks × 2 = 8 marks)

3. What is the principle of Metaphon therapy? Explain the various steps involved.

(16 marks)

**OR**

4A. How do you justify the application of phonological theories in the management of phonological disorders?

4B. What is metrical phonology?

(12+4 = 16 marks)

5. Discuss the neurophysiological correlates of dysarthria with recent studies.

(16 marks)

**OR**

6A. Explain the role of sensory motor processing in speech.

6B. Explain the neural substrates of apraxia.

(10+6 = 16 marks)

7. Discuss the acoustic characteristics of dysarthric speech with reference to physiological deficit?

(16 marks)

**OR**

8A. Discuss the recent advances in the management of apraxia of speech in adults.

8B. Comment on the evidence based practice in neuromotor speech disorders.

(12+4 = 16 marks)

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9A. Elaborate on the subjective evaluation of swallowing function.

9B. Briefly explain the role of SLPs in the management of aspiration.

(10+6 = 16 marks)

**OR**

10. Write an essay on the assessment protocol followed for a bed-side clinical examination for an adult with dysphagia?

(16 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2018****SUBJECT: SH 204 – SPEECH PERCEPTION AND ITS DISORDERS  
(NEW REGULATION)**

Monday, June 04, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

**Answer ALL the questions.**

- 1A. Discuss categorical perception in humans.  
1B. Write about motor theory of speech perception. (8+8 = 16 marks)

**OR**

- 2A. Write about analysis by synthesis of speech perception.  
2B. Discuss about lack of invariance influences speech perception. (10+6 = 16 marks)

3. Write an essay on different subjective methods to evaluate speech intelligibility in humans. (16 marks)

**OR**

- 4A. Write about perception of segmental cues in visual modality.  
4B. Write about perception of supra-segmental cues in tactile modality. (10+6 = 16 marks)

- 5A. Write about perception of vowels in individuals with hearing impairment.  
5B. What are the factors affecting dichotic listening?

**OR**

- 6A. Discuss any two methods to study speech perception in infants.  
6B. Give a brief note on effect of signal enhancement strategies on speech perception in hearing aids. (6+10 = 16 marks)

7. With the relevant studies, discuss the effect of number of channels on speech perception in cochlear implantees. (16 marks)

**OR**

- 8A. Compare and contrast perception of vowels through ABI and CI.  
8B. Compare the perception of speech through middle ear implant and hearing aids (8+8 = 16 marks)

- 9A. With recent literature, discuss the effect of hearing loss on speech perception in noise.  
9B. Discuss the role of long term memory on speech perception. (10+6 = 16 marks)

**OR**

- 10A. Write about different types of memories and its stages.  
10B. Write about any two theories of memories. (6+10 = 16 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2018****SUBJECT: SH 205 – DIAGNOSTIC AUDIOLOGY  
(NEW REGULATION)**

Wednesday, June 06, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

1A. Explain with appropriate illustrations the calibration procedure for the electrophysiological equipment installed in your clinic.

1B. Add a note on the signal acquisition strategies from the electrodes in ABR.

(10+6 = 16 marks)

**OR**

2A. Describe the process of gating and filtering of acoustic stimuli.

2B. Justify the relevance of standards, equipment, procurement, installation and calibration as mandatory in the academic curriculum of Audiology.

(4+12 = 16 marks)

3A. Discuss the use of ABR and OAE in early identification of hearing impairment programs.

3B. Critically evaluate the National Programme for Prevention and Control of Deafness (NPPCD).

**OR**

4A. “Contralateral suppression of otoacoustic emissions is an index of the function of the medial olivocochlear system.” Discuss with relevance to clinical applications.

4B. Describe the OAE protocol for infants.

(10+6 = 16 marks)

5A. Describe the phenomenon of acoustic reflexes with appropriate illustration.

5B. Comment on the acoustic reflexes in specific pathologies encountered clinically.

(6+10 = 16 marks)

**OR**

6. Define non acoustic reflexes and describe the procedures to assess them. Add a note on its clinical applications and limitations.

(16 marks)

7A. Discuss the role of fMRI in audiological practice.

7B. Describe the potentials analysed in ECOCHG and their clinical utility.

**OR**

8A. Write in brief on SN<sub>10</sub>.

8B. Discuss the basics of ASSR and its relevance to assessment of hearing sensitivity with published studies.

(6+10 = 16 marks)

9A. Discuss about audiological practices in a rural setup.

9B. Describe the test protocol for a patient with complaint of vertigo associated with movement to one side only. Comment on the possible outcome of the evaluation.

(8+8 = 16 marks)

**OR**

10A. Describe the audiological profile in auditory dyssynchrony.

10B. Explain audiological test findings in individuals with Meniere's disease.

(10+6 = 16 marks)





**MANIPAL ACADEMY OF HIGHER EDUCATION****SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2018****SUBJECT: SH 206 – HEARING DEVICES  
(NEW REGULATION)**

Friday, June 08, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

1A. What are the applications of frequency modulations in speech and hearing?

1B. What are the advantages of satellite communication?

(8+8 = 16 marks)

**OR**

2. Explain in detail the working of a DSP system.

(16 marks)

3. With the help of neat diagram explain the instrumentation, setup and stimuli for electro-acoustic measurements.

**OR**

4. Write an essay on techniques available in the hearing aids to improve speech perception in the presence of background noise.

(16 marks)

5. Describe in detail about types of tinnitus maskers and selection of tinnitus maskers.

**OR**

6. Describe the various assistive devices that can be used with telephone and television.

(16 marks)

7A. With adequate literature support, discuss the perception of speech in noise and music by individuals with cochlear implants.

7B. Write a note on mapping.

**OR**

8A. Describe the components and working principle of cochlear implant.

8B. Write a note on modes of stimulation in cochlear implant.

(8+8 = 16 marks)

9A. Describe the components working of BAHA and Auditory brainstem implant.

9B. Write a note on verification and validation of middle ear implants fitting.

(8+8 = 16 marks)

**OR**

10. Write an essay on working of different types of middle ear implants and the candidacy selection criteria for the same.

(16 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2018****SUBJECT: SH 207 – ADVANCES IN MANAGEMENT OF PERSONS WITH HEARING DISORDERS  
(NEW REGULATION)**

Monday, June 11, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

**Answer ALL the questions.**

1. Briefly discuss on any four early intervention programs.

(16 marks)

**OR**

2A. Write a note on role of auditory plasticity.

2B. Elaborate on technological requirement for hearing impaired in formal education.

(8+8 = 16 marks)

3A. Elaborate on importance of amplification devices in children with hearing impairment.

3B. Discuss the post hearing aid fitting management strategies for elderly individuals with hearing loss.

**OR**

4A. Discuss preventive measures for over amplification during pediatrics HA fitting.

4B. Elaborate on problem encountered by moderate hearing loss children.

(8+8 = 16 marks)

5. Discuss in detail the tinnitus retraining therapy.

(16 marks)

**OR**

6A. Describe on use of amplification and maskers in tinnitus rehabilitation.

6B. Write on counselling aspect for management for hyperacusis.

(8+8 = 16 marks)

7A. Elaborate on Biwako millennium framework legislations related to education issues of persons with hearing impairment.

7B. Discuss the measure Government of India had taken to implement legislations for disability in India.

(6+10 = 16 marks)

**OR**

8A. Briefly explain any two acts for hearing impairment.

8B. Describe on ADIP scheme for persons with hearing disability.

(8+8 = 16 marks)

9. Discuss CAPD management in terms of devices and environmental modification.

**OR**

10. Write on remediation strategies in CAPD management

(16 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2018****SUBJECT: SH 201 - LANGUAGE ACQUISITION AND LANGUAGE DISORDERS IN CHILDREN  
(NEW REGULATION)**

Monday, May 28, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

**✍ Answer ALL the questions.**

1. Discuss the neuroanatomical and neurophysiological correlates of language acquisition.

**OR**2. Describe and critically evaluate any one of the comprehensive theory of language acquisition.  
(16 marks)

3A. Discuss the communication characteristics in children with hearing impairment with adequate literature support.

3B. Explain the classification of bilinguals based on the context of acquisition.  
(12+4 = 16 marks)**OR**4. Describe the clinical language features and recovery pattern which is seen in childhood aphasia.  
(16 marks)5. Discuss the communication characteristics of children with Autism Spectrum Disorder with supporting evidence.  
(16 marks)**OR**

6A. Discuss the contemporary issues in early identification of autism.

6B. Discuss morpho-syntactic deficit seen in children with SLI.  
(8+8 = 16 marks)

7A. Write a note on AVT and its principle.

7B. Describe the assessment of pragmatics in a child of 7-8 year old.  
(6+10 = 16 marks)**OR**8. Describe an assessment protocol for a 15 year old child diagnosed with moderate intellectual disability based on ICF.  
(16 marks)

9. What are early literacy skills? Describe the significance of early literacy skills for reading and writing development and elaborate on the assessment of the same.

**OR**10. Is there a causal link from phonological awareness to success in learning to read? Justify with evidence.  
(16 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2018**  
**SUBJECT: SH 202 – ADULT LANGUAGE DISORDERS**  
**(NEW REGULATION)**

Wednesday, May 30, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

- 1A. Discuss the neurophysiology of nerve conduction.  
1B. Differentiate lateralization, localization and specialization from each other.

**OR**

- 2A. Draw a neat diagram of the Circle of Willis and label all arteries.  
2B. Left hemispheres is the dominant hemisphere. Critically evaluate.

(8+8 = 16 marks)

3. Write on the patterns of impairment and recovery in bilingual persons with aphasia.

**OR**

4. Elaborate on the neurolinguistic perspectives of fluent aphasias.

(16 marks)

5. Describe any one pragmatic and psychosocial approach to the intervention of aphasia.

(16 marks)

**OR**

- 6A. Discuss the dual-route cascaded model of reading aloud.  
6B. Alexia without agraphia is a disconnection syndrome. Elaborate.

(10+6 = 16 marks)

- 7A. What are the neurochemical changes associated with aging?  
7B. Describe the bottle-neck theory of attention.

**OR**

- 8A. Elaborate on contributions of event-related potentials in cognitive research.  
8B. What are the microstructural changes associated with aging?

(8+8 = 16 marks)

- 9A. What are the types of subcortical aphasias?  
9B. Discuss the mechanisms of subcortical aphasia.

(10+6 = 16 marks)

**OR**

10. Describe the linguistic and non-linguistic deficits in persons with right hemisphere damage.

(16 marks)

