

Reg. No.

MANIPAL UNIVERSITY

SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2013

**SUBJECT: SH 201 - LANGUAGE ACQUISITION AND LANGUAGE DISORDERS IN CHILDREN
(NEW REGULATION)**

Monday, May 27, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. Discuss in detail any one language acquisition theory which you feel is the best to describe the language acquisition process. Justify your answer.

(16 marks)

OR

- 2A. Write a note on critical period, sensitive period, cerebral plasticity, myelination in language acquisition.

- 2B. Explain Joint Action Routine and its significance in language acquisition.

(8+8 = 16 marks)

3. Elaborate the language problems, recovery pattern in Landau Kleffner's syndrome.

(16 marks)

OR

4. Discuss the language development in children with Mental retardation and William's syndrome.

(16 marks)

- 5A. SLI and LLD fall on a continuum. Discuss.

- 5B. Discuss the characteristics of Asperger's syndrome.

(8+8 = 16 marks)

OR

6. Discuss the language characteristics in Autism Spectrum Disorders.

(16 marks)

7. Discuss the assessment and the management for children with SLI.

(16 marks)

OR

8. Describe the specific assessment and management approaches for ADHD with evidences.

(16 marks)

- 9A. Discuss the types of dyslexia with their characteristics.

- 9B. Describe the assessment procedure for reading and writing disorders.

(8+8 = 16 marks)

OR

10. Describe the neurobiology of reading and writing. Discuss the recent trends in the treatment of reading, spelling and writing disorders in children.

(16 marks)



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SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2013
SUBJECT: SH 202 – ADULT LANGUAGE DISORDERS
(NEW REGULATION)

Wednesday, May 29, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

Answer all the questions:

- 1A. What are the recent advancements in understanding neuroanatomy of language?
1B. Discuss the speech and language functions of insula with the available literature. (12+4 = 16 marks)

OR

- 2A. Explain Brodmann's areas serving language functions with neat diagram.
2B. Explain the role of cerebral plasticity. (12+4 = 16 marks)

- 3A. Discuss the concept of cerebral dominance with various behavioral and neuro-imaging findings.
3B. Explain aphasia syndromes with respect to connectionist models. (8+8 = 16 marks)

OR

- 4A. Discuss the role of repetition in differential diagnosis of aphasia.
4B. Critically evaluate the usefulness of LPT in aphasia assessment. (8+8 = 16 marks)

- 5A. Discuss the contribution of dual route model in understanding the types of acquired alexia
5B. Elaborate on treatment efficacy in aphasics. (8+8 = 16 marks)

OR

- 6A. Discuss in detail the psychosocial and psycholinguistic perspectives in Aphasia rehabilitation.
6B. Write a note on Deblocking. (12+4 = 16 marks)

- 7A. Discuss various neuroanatomical changes in cortical structures with ageing.
7B. Elaborate briefly on the role of memory in understanding language. (8+8 = 16 marks)

OR

8. Critically evaluate any one neurocognitive models and elaborate on its application in understanding adult language disorders. (16 marks)

9. What are the cognitive – linguistic deficits seen in persons with TBI? Support your answer by providing corroborative research findings.

(16 marks)

OR

10. Write short notes on:

10A. Unilateral neglect

10B. PPA

10C. Schizophrenia

10D. Striato-capsular aphasia

(4×4 = 16 marks)



MANIPAL UNIVERSITY

SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2013

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

Friday, May 31, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1A. Discuss any one phonologically based model that explains the nature of coarticulation.

1B. Explain the term phonotactics.

(12+4 = 16 marks)

OR

2A. Discuss the phonological development seen in children citing studies done on Indian population.

2B. Describe the position and juncture effects that affect coarticulation?

(10+6 = 16 marks)

3A. Briefly describe the assessment procedures for a child with phonological disorders.

3B. Explain the principles of Metaphon therapy.

(12+4 = 16 marks)

OR

4A. Comment on the application of any one theory of non-linear phonology in the management of phonological errors.

4B. Discuss any one instrumental approach used to assess coarticulation.

(10+6 = 16 marks)

5A. Describe any one model of speech motor control that best explains the errors seen in individuals with apraxia.

5B. Comment on the neural mechanisms that results in spastic dysarthria.

(12+4 = 16 marks)

OR

6A. Describe the development of sensori-motor control in children with relevant studies.

6B. Comment on the neural substrates for apraxia.

(8+8 = 16 marks)

7A. Explain the subjective and objective assessment of an individual with Hyperkinetic dysarthria citing recent findings in literature.

7B. Describe PROMPTS.

(12+4 = 16 marks)

OR

8A. Discuss the recent advances observed in the management of individuals with apraxia of speech.

8B. Describe the approach suggested for the management of resonance errors in children with dysarthria.

(10+6 = 16 marks)

9A. Discuss the different phases of swallow in adults.

9B. Explain GERD.

(12+4 = 16 marks)

OR

10A. Describe the objective methods of assessing swallowing disorders in children.

10B. List the differences in the anatomical correlates of swallowing in children and adults.

(10+6 = 16 marks)



MANIPAL UNIVERSITY

SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: SH 204 – SPEECH PERCEPTION AND ITS DISORDERS (NEW REGULATION)

Monday, June 03, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- 1A. Critically evaluate direct realism theory of speech perception with support from research findings.
1B. Constancy in perception of speech is due to lack of acoustic invariance. Discuss. (10+6 = 16 marks)

OR

- 2A. In your opinion which theory explains speech perception the best? Support your choice with research findings.
2B. Discuss coding of speech in auditory nerve and SOC. (10+6 = 16 marks)

- 3A. Discuss the factors affecting speech intelligibility.
3B. Write a short note on visemes.

(12+4 = 16 marks)

OR

- 4A. Discuss the need for objective measures to determine speech intelligibility.
4B. Discuss supra-segmental perception through the tactile modality.

(8+8 = 16 marks)

- 5A. Discuss perception of consonants and vowels in hearing impaired listeners.
5B. Write a short essay on universality in perception.

(8+8 = 16 marks)

OR

- 6A. Discuss the clinical application of dichotic listening.
6B. Compare speech perception of infant with that of adult.

(8+8 = 16 marks)

- 7A. Compare and contrast speech perception through cochlear implant and middle ear implant.
7B. Write a short essay on influence of electrodes and channels on speech perception in cochlear implants.

(6+10 = 16 marks)

OR

- 8A. Write a short essay on speech perception through auditory brainstem implants.
8B. Comment on perception of supra-segmental aspects of speech through cochlear implants.

(8+8 = 16 marks)

- 9A. Compare and contrast speech perception in animals and infants.

- 9B. Explain with evidence how vowel and consonants are stored in short term memory.

(8+8 = 16 marks)

OR

- 10A. Differentiate between auditory memory and phonetic memory.

- 10B. Write an essay on non-native speech perception.

(8+8 = 16 marks)



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SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: SH 205 – DIAGNOSTIC AUDIOLOGY
(NEW REGULATION)

Wednesday, June 05, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

Answer all questions:

- 1A. Explain the different techniques used to improve signal to noise ratio.
1B. Write a note on installation of audiological diagnostic instruments.

(12+4 = 16 marks)

OR

- 2A. Explain the acoustic characteristics of all the stimuli used in ABR.
2B. Write briefly on generation of pure tone stimuli.

(12+4 = 16 marks)

- 3A. What is genetic counseling? Explain the different steps involved in genetic counseling.
3B. Write a note on cost benefit analysis.

(10+6 = 16 marks)

OR

- 4A. Compare the use of oto acoustic emissions and auditory brainstem responses in early identification program.
4B. What are the different factors affecting OAE?

(10+6 = 16 marks)

- 5A. Describe the principle of immittance audiometry related to common middle ear conditions.
5B. Write a note on non-acoustic reflexes.

(10+6 = 16 marks)

OR

- 6A. Describe the clinical applications of immittance audiometry.
6B. Describe the Reflex decay test.

(10+6 = 16 marks)

- 7A. Explain the generation and recording parameters for ASSR.
7B. Denote the role of FMRI in audiology.

(10+6 = 16 marks)

OR

- 8A. What is ECOCHG? Explain the different potentials and its clinical application.
8B. SN 10.

(12+4 = 16 marks)

9A. Describe the procedure of setting up a comprehensive audiology clinic in a rural setup.

9B. Discuss the audiological and histopathological findings in auditory dyssynchrony.

(10+6 = 16 marks)

OR

10A. What would be your test protocol for an individual with giddiness when he/she moves in one direction only? Discuss the test procedure and the possible findings.

10B. Describe the audiological findings in noise induced hearing loss.

(12+4 = 16 marks)



MANIPAL UNIVERSITY
SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: SH 206 – HEARING DEVICES
(NEW REGULATION)

Friday, June 07, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

Answer all questions:

1. Write short notes on the following:

- 1A. Digital Vs Analog filters
- 1B. FFT
- 1C. AM Vs FM
- 1D. Digital modulation

(4×4 = 16 marks)

OR

- 2A. Discuss need and advantage of digital system.
- 2B. Receiver used in digital hearing aids

(8+8 = 16 marks)

- 3A. How would you use real ear measurement for fitting of hearing aids?
- 3B. Elaborate on noise reduction algorithm in hearing aids.

(8+8 = 16 marks)

OR

- 4A. Brief on technology used for feedback cancellation in hearing aids.
- 4B. Discuss the static and dynamic characteristics of compression.

(8+8 = 16marks)

- 5A. Write a note on tinnitus masker.
- 5B. Discuss the utility of auditory based ALDs with their merits and demerits.

(4+12 = 16 marks)

OR

- 6A. Write on recent advancement in assistive listening devices.
- 6B. Describe the factor influencing fitting of assistive listening devices.

(8+8 = 16 marks)

- 7A. Write an essay on any two recent speech coding strategies in cochlear implant.
- 7B. Interpret the findings of various tests that will help you to decide on the candidacy for cochlear implantation.

(8+8 = 16 marks)

OR

8. Elaborate on the various outcomes of cochlear implantation.

(16 marks)

9. Describe the component, principle and candidacy for BAHA.

(16 marks)

OR

- 10A. Is middle ear implant is better option for individual with sensory neural hearing loss? Critically evaluate this statement.
- 10B. Discuss the outcome of brainstem implant.

(8+8 = 16 marks)



MANIPAL UNIVERSITY

SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – MAY/JUNE 2013
SUBJECT: SH 207 – ADVANCES IN MANAGEMENT OF PERSONS WITH HEARING DISORDERS
(NEW REGULATION)

Monday, June 10, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- 1A. How technological advancements in the field audiology have improved the quality of rehabilitation for hearing impairment? Discuss.
 1B. Discuss the role of auditory plasticity in the management of hearing impairment.
 (10+6 = 16 marks)

OR

2. What are the factors that determine the selection of amplification and rehabilitation method for hearing impairment? Justify your answer.
 (16 marks)
3. “Amplification is not essential in geriatric population”. Critically evaluate the statement.
 (16 marks)

OR

4. How would you go about management of a child with visual and hearing impairment?
 (16 marks)
- 5A. Briefly discuss the utility of audiological finding in management of tinnitus.
 5B. Write short notes on (**any TWO**):
 i) Biofeedback techniques
 ii) TRT
 iii) Cognitive Behavioural Therapy
 (6+(5×2) = 16 marks)

OR

- 6A. Elaborate on counselling tips for hyperacusis.
 6B. Discuss the management of hyperacusis.
 (4+12 = 16 marks)
- 7A. Write a note on international declarations related to management of hearing disability and its importance in Indian scenario.
 7B. Write short notes on ADIP scheme and PWD act.
 (8+(4×2) = 16 marks)

OR

8. What are steps taken by government of India to provide education to individuals with hearing impairments? What are your suggestions to improvise the existing schemes?
 (10+6 = 16 marks)
- 9A. “A patient came with complaint of understanding of speech in noisy situation with normal hearing sensitivity in both ears”. Plan various activities for the same.
 9B. Write notes on FM system.
 (10+6 = 16 marks)

OR

10. Discuss the activities to overcome the cognitive and language deficits seen in individuals with CAPD.
 (16 marks)



MANIPAL UNIVERSITY

SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2013

SUBJECT: SH 201 - LANGUAGE ACQUISITION AND LANGUAGE DISORDERS IN CHILDREN
(NEW REGULATION)

Wednesday, December 18, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- 1A. Discuss the linguistic theory of language acquisition.
1B. Write a note on neuroanatomical correlates of language acquisition. (8+8 = 16 marks)

OR

- 2A. Discuss the application of behavioral theory in assessment and management of child language disorders.
2B. Write a note on bootstrapping and scaffolding and its significance in language development. (8+8 = 16 marks)

- 3A. Discuss the language development in visual handicap.
3B. Write on language problems and recovery pattern in Landau Kleffner Syndrome. (8+8 = 16 marks)

OR

- 4A. Describe the language development in children with Intellectual Disability with evidences from literature.
4B. Write a note on language learning disability. (8+8 = 16 marks)

- 5A. Discuss language and the cognitive characteristics seen in children with high functioning autism.
5B. Describe the DSM IVR criteria for diagnosing autism. (10+6 = 16 marks)

OR

6. Discuss the communication problems seen in Specific language impairment. (16 marks)

- 7A. Write a note on applied behavioral analysis.
7B. Discuss the speech and language assessment procedures for children with Acquired childhood Aphasia. (8+8 = 16 marks)

OR

8. Discuss the different management options for children with autism and elaborate on the effectiveness of the treatment techniques with the evidence from recent literature. (16 marks)

- 9A. Elaborate on the relationship between phonological awareness and reading.
9B. Discuss the recent trends in the treatment of reading disorders. (8+8 = 16 marks)

OR

10. Describe the development of reading and writing in children. (16 marks)



MANIPAL UNIVERSITY
SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2013
SUBJECT: SH 202 – ADULT LANGUAGE DISORDERS
(NEW REGULATION)

Thursday, December 19, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- 1A. Write briefly on the association between handedness and language lateralization and aphasia.
1B. Discuss the relevance of gathering information on handedness on the clinical decision making in aphasia.

(12+4 = 16 marks)

OR

- 2A. The cortical association areas are the benchmarks of cognitive evolution. Critically evaluate.
2B. Describe the types of neurotransmitters.

(10+6 = 16 marks)

3. Bilingual and monolingual speakers possess similar neuroanatomical substrates of linguistic functions. Critically evaluate.

(16 marks)

OR

- 4A. Discuss the socio-cultural variables that influence the interpretation of test scores in people with aphasia.
4B. Relevance of the assessment of functional communication skills in people with aphasia.

(12+4 = 16 marks)

5. Short notes:

- 5A. Computer-based aphasia therapy
5B. Visual action therapy
5C. Deblocking
5D. PACE

(4×4 = 16 marks)

OR

- 6A. Describe the role of family and the society in the rehabilitation of people with aphasia.
6B. Write briefly on quality of life in people with aphasia

(8+8 = 16 marks)

- 7A. Explain the role of working memory in language processing.
7B. Semantic versus procedural memory

(12+4 = 16 marks)

OR

8. Describe the structural and electrophysiological changes in the nervous system subsequent to the ageing process.

(16 marks)

- 9A. Describe the clinical features of subcortical dementias.
9B. What are the communication deficits in people with schizophrenia?

(10+6 = 16 marks)

OR

10. Discuss the linguistic and non-linguistic deficits in people with TBI.

(16 marks)



MANIPAL UNIVERSITY

SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2013

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

Friday, December 20, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. Describe in detail the recent developments in phonological process analysis. Give importance to quantitative measures.

(16 marks)

OR

2. Explain any two effects of coarticulation. Discuss phonologically based model.

(8+8 = 16 marks)

- 3A. Write the importance of natural phonological theory on treatment of phonological disorders.

- 3B. Write a note on generative phonology.

(12+4 = 16 marks)

OR

4. Describe metrical theory of phonology and its application in the evaluation of phonological disorders.

(16 marks)

5. “Concept of sensory feedback control in speech motor acts is important”. Justify with a mention on neural components responsible.

(16 marks)

OR

6. Describe the neural substrates in apraxia of speech. Update with evidences from recent literature.

(16 marks)

7. Write short notes with its rationale

- 7A. PROMPT

- 7B. Visual phonics

- 7C. Jordan’s gesture

- 7D. Association method in DAS

(4×4 = 16 marks)

OR

8. Discuss the approaches for treatment of dysarthria in adults.

(16 marks)

- 9A. Explain the maturational considerations in dysphagia.

- 9B. “Rehabilitation of dysphagia should always follow an organized and systematic approach”
Justify with adequate clinical instances.

(8+8 = 16 marks)

OR

10. Discuss the importance of multidisciplinary approach to dysphagia with relevant clinical studies.

(16 marks)



MANIPAL UNIVERSITY
SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2013
SUBJECT: SH 204 – SPEECH PERCEPTION AND ITS DISORDERS
(NEW REGULATION)

Saturday, December 21, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- 1A. Critically evaluate motor theory of speech perception with support from research findings.
 1B. Constancy in perception of speech is due to lack of acoustic invariance. Discuss. (10+6 = 16 marks)

OR

- 2A. Write a short essay on coding of speech in auditory system.
 2B. Write a short note on normalization of speech. (12+4 = 16 marks)

- 3A. Compare perception of speech through auditory modality in normal and hearing impaired listeners.
 3B. Discuss the importance of measuring speech intelligibility in clinical setup. (10+6 = 16 marks)

OR

- 4A. Write an essay on articulation index.
 4B. List advantages and disadvantages of articulation index. (10+6 = 16 marks)

- 5A. In your opinion which theory explains infant speech perception the best? Support your choice with research studies.
 5B. Compare speech perception of infant with that of adult. (10+6 = 16 marks)

OR

- 6A. What is dichotic listening? Explain any one theory of dichotic listening.
 6B. List the applications of dichotic listening in audiology. (10+6 = 16 marks)

- 7A. Discuss the device related factors affecting speech perception through cochlear implants.
 7B. Discuss speech perception through digital hearing aids and cochlear implants. (10+6 = 16 marks)

OR

- 8A. Compare and contrast speech perception through cochlear implant and brainstem implant.
 8B. Write a short essay on speech perception through various speech processing strategies used in cochlear implants. (8+8 = 16 marks)

- 9A. List the factors affecting speech perception in adverse listening situations.
 9B. Discuss how various factors affect speech perception in individuals with conductive hearing loss. (4+12 = 16 marks)

OR

- 10A. Discuss importance of studying speech perception in animals.
 10B. Discuss its role in perception of consonants. (8+8 = 16 marks)



MANIPAL UNIVERSITY
SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2013

SUBJECT: SH 205 – DIAGNOSTIC AUDIOLOGY
(NEW REGULATION)

Monday, December 23, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- 1A. Discuss the acoustic/physical characteristics of different stimuli used for ABR recording.
 1B. Write a note on gating and filtering of stimuli. (10+6 = 16 marks)

OR

- 2A. Describe the different techniques used to improve signal to noise ratio in ABR recording.
 2B. Write on addition and subtraction of waves. (10+6 = 16 marks)

- 3A. Critically evaluate the universal newborn hearing screening with special reference to Indian context.
 3B. In brief, comment on the hearing conservation program. (12+4 = 16 marks)

OR

- 4A. Write on the classification of OAEs & the different factors affecting it.
 4B. In a brief manner, comment on OAE interpretation. (12+4 = 16 marks)

- 5A. Discuss immittance findings in normal hearing neonates .
 5B. Write a note on Non-acoustic reflexes. (16 marks)

OR

- 6A. Describe multi frequency and multi component tympanometry.
 6B. Discuss the principle, procedure and interpretation of reflex decay test. (8+8 = 16 marks)

- 7A. Describe the factors affecting and clinical application of MMN.
 7B. Discuss the factors affecting MLR. (10+6 = 16 marks)

OR

- 8A. Discuss the clinical applications of ECOCHG with appropriate studies.
 8B. Describe the technical factors affecting ABR recording. (8+8 = 16 marks)

- 9A. Write a note on audiological findings in autism.
 9B. Discuss the role of radiological investigations in audiological diagnosis. (8+8 = 16 marks)

OR

- 10A. 30 year old male reported of vertigo, tinnitus and fluctuating hearing loss in left ear. What further audiological evaluations do you recommend to facilitate appropriate differential diagnosis? Discuss the outcome of your results.
 10B. Explain the procedure to evaluate pitch and loudness of tinnitus. (10+6 = 16 marks)



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MANIPAL UNIVERSITY
SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2013
SUBJECT: SH 206 – HEARING DEVICES

(NEW REGULATION)

Tuesday, December 24, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. What is a filter? Write an essay on applications of filters in speech and audiological sciences. (16 marks)

OR

2A. Elaborate on digital modulation techniques such as PCM, PPM, PWM and their applications.
2B. What is modulation frequency and modulation depth in amplitude modulations. Explain with examples. (12+4 = 16 marks)

3A. Briefly explain the importance of electro acoustic measurement of a hearing aid and need for standards.

3B. Write short notes:
i) REUR ii) REOR iii) REAR iv) RECD (8+8 = 16 marks)

OR

4A. Elaborate on the frequency lowering devices.
4B. Write a note on working principles of hearing aids with a neat diagram. (8+8 = 16 marks)

5. Describe the various types of ALDs with their merits and demerits. (16 marks)

OR

6A. Explain the recent advancement in Auditory based ALDs.
6B. Write short notes on Tinnitus Masker. (10+6 = 16 marks)

7A. Write briefly on the historical developments in cochlear implant.
7B. Discuss any two speech coding strategies in cochlear implant. (8+8 = 16 marks)

OR

8. Describe the various post-operative measurements carried out after cochlear implantation. (16 marks)

9A. How do you determine the candidacy for Middle ear implant?
9B. Discuss the component and working principle of middle ear implant. (8+8 = 16 marks)

OR

10A. Briefly discuss on the component and working of brainstem implant.
10B. Explain the risk involved with brainstem implant. (10+6 = 16 marks)



MANIPAL UNIVERSITY**SECOND YEAR M.A.S.L.P. DEGREE EXAMINATION – DECEMBER 2013****SUBJECT: SH 207 – ADVANCES IN MANAGEMENT OF PERSONS WITH HEARING DISORDERS
(NEW REGULATION)**

Thursday, December 26, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

1. Define auditory deprivation. Discuss its effect on the development of speech & language skills. Support with appropriate literature evidence.

(16 marks)

OR

2. Discuss the process of informed decisions regarding the selection of method of rehabilitation and choice of amplification for the hearing impaired.

(16 marks)

3. Describe the factors influencing the decision of hearing aid selection in geriatric population. Mention the amplification options for these individuals.

(16 marks)

OR

4. Describe the amplification protocol and consideration in pediatric population.

(16 marks)

- 5A. Describe the application of audiological findings in the management of hyperacusis.

- 5B. Describe the counseling tips given for individuals experiencing tinnitus.

(8+8 = 16 marks)

OR

6. Critically evaluate the statement, “does the management of tinnitus vary according to the degree of loss”.

(16 marks)

7. Describe the role of state government in execution of the policies and schemes.

(16 marks)

OR

- 8A. Describe ADIP scheme

- 8B. Add a note on SSA

(8+8 = 16 marks)

9. Describe the devices used in the management of APD.

(16 marks)

OR

10. Describe the treatment activities to improve binaural processing deficits in CAPD.

(16 marks)

