#### OE 010 (Sp & Hg)

#### V Semester B.Sc (Sp. & Hg.) Examination, December 2008 (Scheme : ISS) Speech and Hearing Motor Speech Disorders in Children

Time: 2	Hours	Max. Marks	: 50
Ins	tructionsAttempt all questions. All que	stions carry equal marks.	
1. 1) a) 1	Draw a neat diagram to represent the com Unit'. Describe the characteristic feature levels in the motor neuron.	-	
b)	Describe the importance of frontal and part of speech.  OR	rietal lobe in sensorimotor control	5
2) a)	Describe the following in <b>not</b> more than i) vSaltatory conduction	2 or 3 sentences : ii) Bulbar region	6
	<ul><li>iii) Ventrolateral nuclei</li><li>v) Pyramidal cells</li></ul>	<ul><li>iv) Globus pallidus</li><li>vi) Supplementary motor cortex.</li></ul>	
b)	Write a neat diagram of the following ar i) Tongue ii) Jaw		4
II. 3) a)	What are the characteristic features of hype As a speech pathologist how do you dist behavioral and speech characteristics?	• •	
b)	Define and explain the usefulness of refl neuromotor disability in children.	ex profile in the identification of	4
4) a)	OR Suggest a therapy plan for a severe quadintelligence and good receptive language execute the plan.		6
b)	What are the subjective methods of asserneuromotor disability ?	ssing articulation in a child with	4

# 0E 010 (Sp & Hg)

III.	5)	a)	Differentiate between verbal and non-verbal apraxia in children.	5
		b)	Explain where and how the processing of speech breaks down in case of developmental apraxia of speech.	5
			OR	
	6)		ive a detailed account of the management strategies for treatment of evelopmental apraxia of speech in children.	10
IV.	7)	ŕ	Describe any two conditions of cranial anomaly which lead to mental retardation in children.	4
		D)	Give one example each for reversible and irreversible conditions of mental retardation. Suggest a clinical protocol for differential diagnosis of the two conditions.  OR	6
	8)	a)	Describe the characteristics of Moebius syndrome. Suggest a general outline of treatment for speech problems.	5
		b)	Highlight the characteristics and management plan for speech problems in	
			children with progressive bulbar palsy.	5
V.	9)	a)	Differentiate the following in AAC:	3
			i) Symbol v/s Sign	
			ii) Aided v/s Unaided communication system iii) Iconic v/s Abstract symbols.	
			b) How do you assess the cognitive and linguistic skills of a child who i recommended for AAC rehabilitation ?	is 7
			OR	
	10	)	a) Describe when and in what conditions AAC rehabilitation is considered in children with motor speech disorders.	in 5
			b) How and on what aspects will you counsel the parents/caregivers of a child who is recommended an aided communication systems in AAC ?	5

#### OE020(Sp&Hg)

#### 5<sup>th</sup> Semester B.Sc. (Sp & Hg) Examination, Dec. 2008 (Scheme: ISS)

#### Speech and Hearing Child Language Disorders

Time: 2 Hours	Max. Marks: 50
Instruction: AH Units are compulsory.	
Unit I 1) Compare and contrast the biological maturation theory and be theory of language acquisition in children.	ehavioural 10
OR	
2) Explain the information processing theory of language acquis	ition. 10
. Unit II 3) a) What are neurotransmitters?	2
b) Discuss the functions of senotonin and dopamine,	8
OR	
4) Discuss the neurophysiological correlates of language acquis	ition. 10
<ul><li>Unit III 5) a) Describe the speech and language characteristics in childred developmental dysphasia.</li><li>b) Define mental retardation. Give any one classification of netardation.</li></ul>	6
OR	
6) a) What are the core impairments in autism?	3
b) Highlight the classification of autism spectrum disorders.	7
Unit IV 7) a) Compare and contrast specific language impairment and le	earning disability. 6
b) Discuss the main principles in management of autism spedisorders.	ctrum 4
OR	

P.T.O.

8) Describe any two language tests used in the assessment of school age	
children between 7-10 years.	10
UnitV 9) a) Discuss the principles of management in mental retardation.	7
b) Write a short note on Down's syndrome. OR	3
10) a) Discuss the approach to early intervention for children diagnosed with Dyslexia.	6
b) Discuss role of medication for children diagnosed with ADHD.	4

# OE 030 (Sp & Hg)

#### V Semester B.Sc. (Sp. & Hg.) Examination, Dec. 2008 (Scheme : ISS) Speech and Hearing Scientific Enquiry in Speech and Hearing

Time: 2 Hours	Max.	Marks:	50
Instruction: Attempt all questions.			
<ul> <li>I. Discuss the need for scientific enquiry in speech language patholaudiology.</li> <li>OR</li> </ul>	ology and		10
2. Describe criteria for selection of a research question.			10
II. 3. a) What is data?			2
<ul><li>b) Compare independent Vs. dependent variables.</li><li>c) Comment on planning in scientific research.</li><li>OR</li></ul>			2 6
4. Describe various methods of data collection.			10
III. 5. Discuss any two research designs used in the area of voice science example.  OR	ce with s		10
6. a) Discuss the relevance of AB design in the field of audiology.	•		4
b) Explain the importance of experimental studies in the field o hearing.	f speech	and	6
IV. 7. a) Describe inferential statistics with examples.			6
b) Describe the characteristics of Gaussian curve.  OR			4
8. Outline a research proposal with a suitable design to study incide and hearing disabilities in Karnataka.	dence of	-	10
V. 9. What are the factors to be considered in evaluating a research r	report?		10
<ul> <li>10. Short notes on the following:</li> <li>a) Explain the significance of ex-post factor study.</li> <li>b) Split-halfreliability.</li> <li>c) APA guidelines.</li> <li>d) Ethics of research</li> </ul>	(2	1/2x4=1	l <b>0</b> )

#### OE 040 (Sp & Hg)

# V Semester B.Sc. (Sp. & Hg.) Examination, December 2008 (Integrated Semester Scheme) Speech and Hearing Organization and Administration of Speech and Hearing Center

Tim	Sime: 2 Hours Max. Max. Max. Max. Max. Max. Max. Max.			50
		Instri	uction : Answer all questions.	
I.	1.	a)	Differentiate between conservation and rehabilitation with suitable examples.	4
		b)	Describe the role of NGO's in the rehabilitation services in a developing country like India,	6
			OR	
	2.	a)	Compare and contrast the functions of speech and hearing center in a medical set-up Vs. a regular school set-up.	5
		b)	Evidence based practice is the key to the success of outcome in rehabilitation services. Comment.	5
II.	3,		scribe, in detail, any two acts related to disability in the Indian context.  gest your views on the need for amendments of the Acts.  OR	10
	4.	reh	e Rehabilitation Council of India plays a key role in the standardization of abilitation services in the country'. Discuss the statement with reference to objectives and functions of the RCI.	10
III.	5.	. a)	Propose a schematic plan for setting up a speech and hearing center in an industry.	6
		b)	List the factors to be considered in setting-up the above center.	4
			OR	

# OE 040(Sp&Hg)

	6,	a)	Describe the procedures followed for recruitment of personnel in a	
			government organization.	8
		b)	Differentiate between salary and pay scale with examples.	2
IV.	7.	a)	Define budget. List the possible sources of budget for a Government and private organization.	5
		b)	What are records? Explain the different types of records that are maintained in a speech and hearing clinic.	5
			OR	
	8.	a)	Describe, in brief, the official formalities to be followed in the purchase	
			of software from abroad.	8
		b)	Expand the terms; CL, EL, ML, RH and LND.	2
V.	9.		e students of speech and hearing courses should be trained on the strategies market their professional skills'. Comment.  OR	10
	10.	pub	ganization of camps, seminars and conferences serves as a method of lic education in addition to professional development. Support the ement with relevant examples.	10

# OE050(Sp&Hg)

#### V Semester B.Sc. (Sp. & Hg.) Examination, December 2008 (Scheme : ISS) Hearing Aids

Tin	ne :.	. 2 Hours Max. M	arks: 50
		Instruction: Answer all the questions.	
I.	1,	a) What are the major developments in the hearing aids in the last two decades ?	6
		b) Write a note on directional microphones in hearing aids.  OR	4
	2.	Write notes on:	10
		a) Class D amplifier	
		b) Acoustic chair	
		c) Zinc air cell	
		d) Volume control	
II.	3.	a) How do you convince a parent of a child with hearing loss to use binaural hearing aids for the child?	7
		b) How does body baffle effect with a body level hearing aid affect its performance ?	3
		OR	
	4.	a) What guidelines would you provide to the head of a school for the on purchase of amplification systems ?	deaf 7
		b) Write short notes on candidacy for bone anchored hearing aids.	3

III.	5.	a)	Write the need for incorporating an output limiting feature in a hearing aid.	6
		b)	What is frequency transposition,? Who are the candidates for such an amplification system?	4
			OR	
	6.	a)	Differentiate an IROS from a BTE. When is the former preferred	
			over a BTE ?	5
		b)	Write a note on time constants in a compression hearing aid.	5
VI.	7.	ĺ	What are the reasons for acoustic feedback with earmolds? How can they be overcome?  When and why is there a need for change of earmolds by a aid user?	6 4
			OR	
	8.		That earmold modifications can be made to modify the frequency response a hearing aid? Describe them.	10
V.	9.	a)	Why should electroacoustic measurement of hearing aids be carried out?	8
		b)	Write a note on digispeech.	2
			OR	
	10.	a)	Write the procedure, specified in IS 10776: 1984, for measurement of OSPL <sub>90</sub> frequency response, full-on-gain.	6
		b)	How are the electroacoustic parameters different in a mild, moderate and strong category hearing aids? Describe with a table.	4

### OE 060 (Sp & Hg)

# V Semester B.Sc. (Speech & Hearing) Examination, December 2008 Integrated Semester Scheme Paediatric Audiology

Tim	ne: 2 Hours Max. Marks:	50
I.	Answer any five questions:	
	1) Discuss the pros and cons of conducting a universal hearing screening program in India.	10
	OR	
	2) a) Justify the need to identify fluctuating hearing loss in children.	5
	b) Briefly describe an effective method that can be used to identify fluctuating hearing loss in children in India. Justify your choice of method.	5
II.	3) Write a proposal regarding an infant screening program in Mysore which should include the personnel involved, duties of the personnel and the method of identification.	10
	OR	
	4) What are the advantages and disadvantages of conducting a universal hearing screening program for infants in India ?	10
III.	5) Write notes on how information on development of hearing can be used in the hearing evaluation of the paediatric population.	10
	OR	
	6) a) Describe the structures of the ear that develop from the I <sup>st</sup> and 2 <sup>nd</sup> branchial arches.	5
	b) How would you use information regarding development of the auditory system in counselling parents ?	5

### OE060(Sp&Hg)

IV. 7) a) Based on what criteriawould you decide to carry out VRA or play	
audiometry.	5
b) What are the advantages and disadvantages of each of the above tests?	5
OR	
8) What modifications would you make conditioned play audiometry and VRA while testing:	
a) A blind child	5
b) A child with cerebral palsy	5
V. 9) a) Describe any speech identification test designed to be administered on young children with profound hearing loss.	5
b) Mention atleast five points that should be considered while constructing a speech identification test for the paediatric population.	5
OR	
10) a) Write notes regarding the need to carry speech audiometry on children with hearing impairment aged about two years.	6
b) Briefly describe a speech identification test that can be carried out on	
children below the age of one year.	4