Reg. No.				
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 $(4\times4 = 16 \text{ marks})$

MANIPAL UNIVERSITY

FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION - MAY 2009

SUBJECT: INTRODUCTION TO SPEECH AND LANGUAGE PATHOLOGY (B.1.1.1)

Monday, May 18, 2009

Time	e: 10.00-13.00 Hrs.	Max. Marks: 80
Ø	Question No 1 is compulsory. Answer any FOUR from the rest.	
1A.	Fill in the blanks:	
	i) Manner of articulation of /s/ is .	
	ii) An example of unpaired cartilage of larynx is	
	iii) The primary cause for cerebral palsy is	
	iv) Tongue is innervated by cranial nerve.	
	v) LMN lesion leads to type of paralysis.	
	vi) is a technique for articulation therapy.	
	vii) The other name for soft palate is	
	viii) Receptive aphasia is also known as aphasia.	
	ix) test provides information on cognitive age along with language	age age.
	x) Harmonics are multiples of	
1B.	Write in not more than two to three sentences	
	i) Puberphonia	
	ii) Lesson plan	
	iii) Case history	10.70 0
		$10 + (2 \times 3) = 16 \text{ marks}$
2.4		
	With the help of a neat diagram explain the intrinsic muscles of larynx.	
2B.	Write a note on pitch raising mechanism.	(1016 = 16 montes)
		(10+6 = 16 marks)
3 1	Define Phonology.	
	Explain the phonological development in children.	
JD.	Explain the phonological development in children.	(4+12 = 16 marks)
		(+112 TO Marks)
4 A	Define aphasia.	
	Write a note on the classification of aphasia.	
	What is a diagnostic report?	
		(2+8+6 = 16 marks)
5A.	Briefly discuss the source filter theory of speech production.	E In the spanished by
5B:	Discuss the acoustic correlates of voice.	
		(8+8 = 16 marks)
6.	Write short notes on:	
6A.	Causes and characteristics of voice disorders.	
6B.	Social basis of speech.	
6C.	Speech language and communication.	
6D.	Autism.	

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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION - MAY 2009

SUBJECT: BASIC ACOUSTICS AND ELECTRONICS (B.1.3.2)

Tuesday, May 19, 2009

Tim	e: 10.00-13.00 Hrs.	Max. Marks: 80
Ø	ANSWER SECTIONS A & B IN TWO SEPARATE ANSWER BOOKS	
Ø	Answer ALL questions. Draw diagrams and flow charts wherever appro	priate.

SECTION - A: BASIC ACOUSTICS: 40 MARKS

1.	Fill in the blanks:
1A.	force is responsible for an oscillating body to approach equilibrium.
1B.	The total energy of the vibrating particle is all along its path.
1C.	Particle velocity particle displacement by
1D.	The sound level corresponds to the threshold of human hearing is
1E.	White noise has a pressure spectrum level slope dB/Octave.
1F.	In case of a triangular wave for each octave increase in the frequency, the relative amplitude
	12dB.
1G.	At the natural frequency of the system impedance is and admittance is
1H.	Systems that produce frequency distortion are
1I.	A longitudinal pressure wave is reflected from an open end of the tube with a phase change of
	At the purpose of the crussover network is to said.
1J.	A close organ pipe (one end open, other end closed) and an open organ pipe (both ends
	closed) have their first overtone of identical frequency. Their lengths are in the ratio
	$(1\times10=10 \text{ marks})$
	William 1993 Committee to the Committee of the Committee

2. Answer any TWO of the following:

- 2A. What are standing waves? Give two differences between standing waves and progressive waves. Explain how the standing waves are formed in a string that is anchored at both the ends.
- 2B. Define a saw tooth wave. Explain its waveform, amplitude spectrum and phase spectrum.
- 2C. Explain the term acoustic impedance. Draw phasor diagram showing the impedance vector resulting from compliant reactance, mass reactance and resistance. What is the magnitude of the impedance vector?

 $(5\times2 = 10 \text{ marks})$

3. Answer any FIVE of the following:

- 3A. The siren of the police car emits a pure tone at a frequency of 1125 Hz. Find the frequency that you would perceive in your car under the following circumstances: (i) your car at rest, police car moving toward you at 29 m/s (ii) police car at rest, your car moving toward it at 29 m/s. Given: Speed of sound in air is 343 m/s.
- 3B. i) Define simple harmonic motion.
 - ii) Define longitudinal and transverse waves

B.1.3.2

- iii) What are the properties of the transmitting medium? Write the expression for the period of oscillating pendulum with notations/symbols explained. 3C. With a neat sketch explain the human vocalization mechanism. How resonance takes part in human vocalization? 3D. Explain the concept of phase of vibration executing simple harmonic motion. What do you mean by starting phase and instantaneous phase/phase angle? Explain sound intensity level and sound pressure level. Obtain the expression for sound
- 3E. pressure level.
- State Fourier theorem. Distinguish between line spectra and continuous spectra. Give 3F. examples.

 $(6 \times 5 = 30 \text{ marks})$

3G.	What do you mean by distortion of a signal? Explain transient distortion.
	$(4\times5=20 \text{ marks})$
	SECTION D. DASIC ELECTRONICS, 40 MARKS
	SECTION - B : BASIC ELECTRONICS: 40 MARKS
4.	Fill in the blanks:
4A.	is a device that stores energy by creating a magnetic field.
4B.	A filter which reduces 50Hz power supply hum is called
4C.	Quartz is an example for
4D.	The output level of the carbon microphone is
4E.	The microphone is bidirectional.
4F.	The purpose of the crossover network is to send frequencies to the tweeter and
	frequencies to the woofer.
4G.	The basic requirement of a is to impart a constant speed to the tape.
4H.	Sensitivity describes the ability of the tuner to pick up
41.	Data are transferred on the bus between the CPU and Memory or the CPU and I/O.
4J.	Linear integrated circuits are also referred to as integrated circuits.
	$(1\times10=10 \text{ marks})$
	where it found how the standing waves are formed in a suring that is applicable in a
5.	Answer any FIVE of the following:
5A.	With a neat diagram explain the working of Electret microphone.
5B.	i) What is the main advantage of digital recording over analog recording?
	ii) Explain Dolby B noise reduction system.
5C.	With the help of a neat block diagram explain AM tuner.
5D.	What is memory hierarchy? Explain the purpose of hierarchy in detail.
5E	i) Draw the neat block diagram of audiometer and explain.
	ii) What is audiogram? Explain.
5F.	Explain the working principle of Cathode Ray Tube (CRT).
5G.	
	ability of the contract of the



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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION - MAY 2009

SUBJECT: BASIC HUMAN ANATOMY AND PHYSIOLOGY

Wednesday, May 20, 2009

Time: 10.00-13.00 Hrs.

Max. Marks: 80

- ✓ Draw diagrams and flow charts wherever appropriate.

SECTION - A: ANATOMY: 40 MARKS

1. Describe the salient features in the lateral walls of the different parts of the pharynx.

(10 marks)

- 2. Write briefly on:
- 2A. Functional lobes of the cerebellum.
- 2B. Anterior and posterior walls of the middle ear.

 $(5 \times 2 = 10 \text{ marks})$

- 3. Write short notes on:
- 3A. Epiglottis.
- 3B. Cleft palate.
- 3C. Maxillary air sinus.
- 3D. Coronary sinus.
- 3E. Sex chromatin.

 $(4\times5 = 20 \text{ marks})$

SECTION - B: PHYSIOLOGY: 40 MARKS

- 4. Essay questions:
- 4A. Name the different types of plasma proteins and mention four functions.
- 4B. Name the hormones secreted by posterior pituitary. Explain the action of these hormones.
- 4C. Define cardiac cycle. Give its normal duration. Explain the sequence of events during ventricular systole.
- 4D. Draw oxygen dissociation curve. Give the significance of flat and steep portions of the graph. List two factors that shift the curve to the right.

 $(5\times4 = 20 \text{ marks})$

5. Write short answers for the following:

- 5A. Draw and label a nerve action potential.
- 5B. Define erythropoiesis. Mention two factors that regulate erythropoiesis.
- 5C. List four differences between first and second heart sounds.
- 5D. Define pulmonary ventilation. Give its normal value.
- 5E. Name the ascending tracts and mention the sensations carried by any one tract.
- 5F. List the functions of middle ear.
- 5G. Describe the regulation of gastric acid secretion.
- 5H. List four functions of kidney.
- 5I. Explain any two indicators of ovulation.
- 5J. List the hormones secreted by the adrenal cortex.

 $(2\times10=20 \text{ marks})$



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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION - MAY 2009

SUBJECT: INTRODUCTION TO AUDIOLOGY (B.1.2.1)

Thursday, May 21, 2009

Time: 10.00-13.00 Hrs. Max. Marks: 80 Answer any FIVE questions. Question no 6 is compulsory. Describe the anatomy of middle ear cleft with appropriate diagrams. 1. (16 marks) Write an essay on the theories of bone conduction. 2. (16 marks) Write a note on frequency and intensity and its psychological correlates. Write a note on Audiometric version of Weber test and its applications. (8+8 = 16 marks)4. Write an essay on factors affecting AC and BC thresholds. (16 marks) 5. Illustrate with example: 5A. AC and BC masking criteria. 5B. Calculation of noise levels for masking. 5C. Platue method of masking. 5D. Shadowgram. $(4\times4 = 16 \text{ marks})$ 6. Write short notes on any FOUR of the following: 6A. Daily listening check. Speech audiometry. 6B. 6C. Consequences of CSOM. 6D. MAP & MAF.

 $(4\times4=16 \text{ marks})$

6E. Anatomy of central auditory pathway.

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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION - MAY 2009

SUBJECT: INTRODUCTION TO LINGUISTICS (B.1.3.3)

Friday, May 22, 2009

Time: 10.00-13.00 Hrs.

Max. Marks: 80

1. Answer any FOUR of these:

- 1A. What are the suprasegmental features of English speech? Explain with examples.
- 1B. Describe the principles of phonemic analysis.
- 1C. What is TG grammar? What are its demerits?
- 1D. What is syntax? In relation to it what do the following mean?

 phrases, clauses, transitive verbs, intransitive verbs, simple, complex and compound sentences. Give suitable examples.
- 1E. What is phonetics? What are its various branches? What are the differences between phonetics and phonemics?
- 1F. Draw a neat diagram of a speech organs and their uses in articulating phones of English-vowels and consonants.

 $(10 \times 4 = 40 \text{ marks})$

2. Write short notes on any EIGHT of the following:

- 2A. child language
- 2B. free and bound morphemes
- 2C. trill and tap
- 2D. lax and tense sounds
- 2E. how to describe a consonant
- 2F. diacritics
- 2G. closed diphthongs
- 2H. pidgin
- 2I. acronym
- 2J. differences between /v/ and /w/

 $(2\frac{1}{2} \times 8 = 20 \text{ marks})$

3. Say whether the statements in respect of linguistics are true or false:

- 3A. Rise and rice have similar pronunciation.
- 3B. The vowel in <u>clean</u> is said with the position of lips rounded.
- 3C. All the 24 consonants can begin a word in English.
- 3D. The nucleus in cut is /k/
- 3E. In <u>calculation</u>, the stress falls on the third syllable.
- 3F. There are two sheep in our field. The word underlined is a bound morpheme.
- 3G. Semantics deals with the grammar of English words.
- 3H. 'A large number of his friends attended Prem's birthday party' is a simple sentence.
- 3I. 'My bicycle is new' the word underlined is a determiner.
- 3j. Case grammar is a type of grammar developed by Fillmore.

4.	Fill in the blanks with th	e right	word:	
4A.	does not end a wor	d in Eng	glish.	
4B.	questions are often	spoken	with a falling tone.	
4C.	The word is an exa	mple of	inflectional morphology.	
4D.	When – ous is added as a	suffix to	the stem, the word becomes	S
4E.	Structuralism was advoca-	ted by		
4F.			onounced /p/ in the place of /t	t/. This change is called .
4G.	Brunch is an example of		these	n. 3257 secrement 32
4H.	<u>Track</u> – in this <u>r</u> is a			
4I.	In bushes the last two pho		are	
4J.	When a word has only on	e form i	t is called word.	
			errifet wir de stear it it bill	$(\frac{1}{2} \times 10 = 5 \text{ marks})$
5.	Match the following:			
5A.	CAT	i)	1	
5B.	passed	ii)		
5C.	foundation	iii)	,	enegono del
5D.	it's gone	iv)	sibilant	
5E.	ga <u>m</u> e	v) ·	consonant cluster	
5F.	page	vi)	voiced velar stop	
5G.	girl	vii)	past morpheme	
5H.	<u>sc</u> ream	viii)	bilabial nasal	The free and bound morphen
5I.	tip of the tongue	ix)	acronym	get bas ilm
5J.	two sheep	x)	bound morpheme	shower sense bore you
			1000	$(\frac{1}{2} \times 10 = 5 \text{ marks})$
6.	Transcribe in IPA symb	ols:		
6A.	clock			
6B.	load			
6C.	plough			
6D.	money		oftenganit to troopers at stars	meses Aspententa and A
6E.	strange			
6F.	flash			
6G.	rude			
6H.	station			
6I.	year			

6J.

child

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MANIPAL UNIVERSITY FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION – MAY 2009

SUBJECT: PSYCHOLOGY RELATED TO SPEECH AND HEARING (B.1.3.4)

Saturday, May 23, 2009

Time: 10.00-13.00 Hours Max. Marks: 80

- Answer any EIGHT of the following. All questions carry equal marks.
- 1. Discuss the social-emotional development through any two important stages of life.
- 2. Describe the clinical features of any two psychiatric disorders.
- 3. Define Intelligence and examine the various tests used to measure Intelligence.
- 4. Highlight the theory of moral development.
- 5. Discuss the stages of language acquisition and its relevance to the development of language disorders.
- 6. Elaborate on Token economy and contingency management.
- 7. Discuss two major systems of classification of mental disorders.
- 8. Explain the socio-cultural and learning models of mental disorders.
- 9. Discuss the concept of Normality and Abnormality.
- 10. Write short notes on any **TWO** of the following:
- 10A. Time out technique.
- 10B. Assessment of disability.
- 10C. Survey method.

