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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION – AUG/SEPT 2007

SUBJECT: BASIC HUMAN ANATOMY AND PHYSIOLOGY

Wednesday, August 29, 2007

Time: 3 Hrs.

Max. Marks: 80

SECTION - A: ANATOMY: 40 MARKS

1. Describe the interior of the larynx. Give its blood supply and nerve supply.

(6+4 = 10 marks)

- 2. Write briefly on:
- 2A. Development of face and its anomalies.
- 2B. Lateral wall of the nasal cavity.

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

- 3. Write short notes on:
- 3A. Superior constrictor of pharynx.
- 3B. Cochlea.
- 3C. Spinal nerve.
- 3D. Typical Synovial joint.
- 3E. Oesophagus.

 $(4 \times 5 = 20 \text{ marks})$

SECTION - B: PHYSIOLOGY: 40 MARKS

- 4. Write short notes on the following:
- 4A. Classification and functions of sensory receptors.
- 4B. Menstrual cycle.
- 4C. Oxygen transport in blood.
- 4D. Blood transfusion.
- 4E. Role of baroreceptors in the regulation of blood pressure.

 $(5 \times 5 = 25 \text{ marks})$

- 5. Answer the following questions:
- 5A. Enumerate the hormones secreted by the adrenal gland. Mention why this gland is essential for life.
- 5B. Name TWO locations where smooth muscles are found in the body and mention their functions.

- 5C. Define Glomerular Filtration Rate (GFR) and mention its normal value.
- 5D. Mention the cause of 'Diabetes mellitus'. Mention any two clinical features seen in patients suffering from uncontrolled diabetes mellitus.
- 5E. List FOUR functions of hypothalamus.

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

- 6. State whether the following statements are TRUE or FALSE:
- 6A. Adrenocorticotropic hormone is secreted by adrenal cortex.
- 6B. Most of the blood in the circulation resides in veins.
- 6C. Cornea is avascular.
- 6D. Hydrochloric acid is secreted by the parietal cells in the stomach.
- 6E. RBC count is more in females compared to males under normal conditions.

$$(1 \times 5 = 5 \text{ marks})$$



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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION - AUG/SEPT 2007

SUBJECT: BASIC ACOUSTICS AND ELECTRONICS (B.1.3.2)

Thursday, August 30, 2007.

Time: 3 Hrs.	Max. Marks: 80
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ANSWER SECTIONS A & B IN TWO SEPARATE ANSWER BOOKS.

es .	Answer ALL questions. Draw diagrams and flow charts wherever appropriate.
	SECTION - A: BASIC ACOUSTICS: 40 MARKS
	Fill in the blanks:
A.	Momentum leads restoring force of elasticity by
B.	Refraction can be defined as a change in direction of sound wave propagation due to a change
	in of propagation.
IC.	Beats are produced by the of two waves of nearly equal
	As sound intensity increases by some factor, rms pressure increases only by theof that
	factor.
1E.	The maximum displacement of a body is called
1F.	For the square wave the spectral envelope has the slope of dB per octave.
1G.	The energy storage component of impedance is and is frequency
1H.	Inertial force is when the vibrating body is at equilibrium.
11.	The nearer the frequency of the applied force to the of the elastic system, the greater will be the resulting of vibration.
11.	As the sound intensity is halved, the level is by 3dB.
	$(1\times10=10 \text{ marks})$
2.	Answer any TWO of the following:
2A.	
	Sabine's formula. Write the Eyring's formula for reverberation time. Under what conditions
	Eyring's formula can be approximated to that of Sabine's formula?
2B.	
2C.	
	ii) Explain the triangular wave. What is the expression for relative amplitudes in decibels
	for each component frequency of a triangular wave and in what way this is different
	from the expression for relative amplitudes in decibels for saw tooth wave and a square
	wave?
	$(5\times2=10 \text{ marks})$
3.	Answer any FIVE of the following:
3.A	Explain inverse square law for the propagation of sound energy in a free unbounded medium.

- Write the equation for inverse square law.
- 3B. Define force, work and power and write their units in SI system. Calculate the pressure at a depth of 10m under water having density 1000kg/m³.

Page 1 of 2 B.1.3.2

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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION – AUG/SEPT 2007 SUBJECT: INTRODUCTION TO LINGUISTICS (B.1.3.3)

Friday, August 31, 2007

Time: 3 Hrs.

Max. Marks: 80

For clarity provide examples, illustration, etc. where possible.

1. What are the characteristics that are required of to call a discipline a science? Why is linguistics called a science?

OR

What are the various branches of linguistics? Explain them briefly.

(10 marks)

- 2. Explain the following:
 - i) 'Language is a form, not a substance'.
 - ii) 'Language is a system of systems'.
 - iii) All languages change.

OR

What are the following? Give brief answers.

- i) I C Analysis.
- ii) Phrase structure Grammar.
- iii) Transformational Grammar.
- iv) T-adverb Proposing Rule.

(10 marks)

3. Draw a neat diagram of the tongue and its parts. Explain how it is used in producing the various speech sounds of English.

OR

What is a morpheme? What are the various forms of it? What do you understand about derivational and inflectional morphology?

(10 marks)

4. Explain the cardinal vowel system of Daniel Jones. What is the difference between the primary cardinals and the secondary cardinals? What are the vowels in English phonemic system?

OR

What is a syllable? What are its parts? What are the various kinds of syllables? How is it useful in deciding the stress pattern of a word?

(10 marks)

- 5. Write shorts on any **FIVE** of the following:
- 5A. polysemy
- 5B. lamina
- 5C. plosives
- 5D. child language
- 5E. rounded vowels
- 5F. soft palate
- 5G. monophthongs

 $(3\times5 = 15 \text{ marks})$

6.	Explain the following pairs:		
6A.	Trills and taps.		. •
	phrases and clauses.	PRODUCE TRANSPORT	
6C.	Orthographic word and morp	hological word.	(1.0.0.1)
			$(1\times3=3 \text{ marks})$
7.	Identify the true/false stateme	ents:	
7A.	· ·	z/ there is only one difference.	
7B.		name of the letter after \underline{h} is a diphthong	
7C.	While saying Thursday the st	tress falls on the first syllable.	
7D.	r in carry is a flap		
7E.	/\$/ and $/$ \$/ are classified a	as affricates.	
7F.	The soft palate is also known		rigonomonii
7G.		ing very fast'. The sentence is made of three	-
7H.		the wrong colour'. This is a complex senten	
7I.		divided as alveolar ridge, hard palate and so	oft palate
7J.	/h does not end a word in I	English.	(1/10 - 21/1)
	* 1		$(\frac{1}{4} \times 10 = \frac{21}{2} \text{ marks})$
8A.	The tip of the tongue is called	d .	
8B.		ant phonemes in English phonemic system.	
8C.	Hard palate and teeth are		
8D.	In a dialect accent refers to		
8E.	The shortest vowel phoneme	is represented by the phonemic notation	
8F.	An adjective clause has the q	uality of an	
8G.	In the English word few there		
8H.		between the primary and the secondary care	
8I.		t the beginning of a morpheme is called	sentence.
8J.	sentence has no overt	subject	(1 10 10 1)
			$(1\times10=10 \text{ marks})$
9.	Match the following:		
	a. / þ /	dark!	
	b. sh <u>a</u> rk	brunch	
	c. :	inflectional morpheme	
	d. top	bialabial stop	
	e. tall	Interjection	
	f. oh!	long vowel	
	g. flower	onset	
	h. blend	bound morpheme	
	i. tigr <u>ess</u>	triphthong	
	j likes	diacritics	$(1/\sqrt{10} = 5 \text{ mortes})$
			$(\frac{1}{2} \times 10 = 5 \text{ marks})$
10.	Transcribe in phonemic sym	bols:	
10A	danger		man de la companya d
	shirt		
	cherry		
	. bush		
	liver		
	locked		
	sing -		
	duck bells		
101.	OUII5		$(\frac{1}{2} \times 9 = 4\frac{1}{2} \text{ marks})$
			(12 marks)

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FIRST YEAR B.A.S.L.P. DEGREE EXAMINATION – AUG/SEPT 2007

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

Saturday, September 01, 2007

Time: 3 Hours

Max. Marks: 80

- Answer any EIGHT of the following. All questions carry equal marks.
- 1. Explain the cognitive and psychodynamic models concerning the etiology of mental disorders.
- 2. Describe the following:
- 2A. Stages of language development.
- 2B. Anxiety disorders.
- 3. What is normality? Indicate the existing controversies in describing normality.
- 4. Explain the following:
- 4A. Indian concept of mental illness.
- 4B. Attachment.
- 5. Critically examine the stages of cognitive development as proposed by Piaget.
- 6. Compare the cardinal features of physical development during childhood and adolescence.
- 7. Describe the merits and demerits of observation method.
- 8. What is temperament? Explain any one of the theories of temperament.
- 9. Define conditioning. Explain the principles and clinical applications of classical conditioning.
- 10. Write short notes on any TWO of the following:
- 10A. Assessment of intelligence.
- 10B. Anxiety of disorders
- 10C. Multi-axial classification.

