FIRST YEAR BHMS (NEW SYLLABUS) OCT - 2016 PHYSIOLOGY, PAPER - II

	rmi Siulugy - Papek - II	
Time:	3 hours Total Mark	cs·10(
Instru	ictions:	13.10
	empt all questions from each section	
	ures to the right indicate full.	
3. Mai	ke suitable assumptions wherever necessary.	
-+. VVII	ite separate sections on separate answer sheets.	
	Section - I	
Q-1	Describe physiological anatomy of hypothalamus. Enumerate afferent and efferent connections of	15
	hypothalamus and briefly describe functions of hypothalamus	
	OR	
Q-1	Define peristalsis. Describe mechanism of secretion and functions of succus entericus.	15
Q-2	Describe the functional anatomy of spinal cord and enumerate the ascending and descending	15
	tract.	
	OR	
Q-2	1. Describe Krebs's cycle in detail	07
	2. Draw and labelled diagram of structure of cerebral cortex and describe functions of	08
	each layer.	
Q-3	Write Short Note (Any three)	15
	(a) functions of basal ganglion (b) olfactory pathway	10
	(c) Differences between upper motor neuron (d) beta-oxidation of lipid	
	and lower motor neuron	
	(e) define and describe properties of enzyme	
Q-4	MCQ	05
	1. Muscle spindle is;	03
	a. Receptor for a variety of multi synaptic reflex	
	b. Receptor for stretch reflex	
	c. Occurs only in antigravity muscles	
	d. Excited by both stretch and contraction of the muscles in which it is located	
	2. Pyramidal tracts originate in;	
	a. Somatosensory cortex	
	b. Premotor cortex	
	c. Motor cortex	
	d. All of the above	
	3. Taste buds are not located on the	
	a. Dorsum of the tongue	
	b. Edges of the tongue	
	c. Right and left of the midline and back edge of the tongue	
	d. epiglottis, soft palate and pharynx	
	4. true about gastrin;	
	a. increase secretion of pepsinogen	
	b. decrease gastric motility	
	acid stimulates gastrin secretion d. its secretion increases specially after protein meal	
	d. its secretion increases specially after protein meal5. which carbohydrate is not hydrolyzed by pancreatic amylase?	
	a. Starch	
	*** Y PAR WAA	

b. Glycogenc. Cellulose

d. Dextrin

Section - II

Q-1	Describe the hypothalamic control of endocrine secretions.	15
	\mathbf{OR}	
Q-1	Define puberty. Describe secondary sexual changes occurring in male and female in detail.	15
Q-2	What is different between dwarf and cretin and describe physiology of thyroxine hormone.	15
	OR	
Q-2	1. Enumerate hormone secreted from pituitary gland and describe oxytocin in de	etail 08
	2. Describe physiology of placenta	07
Q-3	Write Short Note (Any three)	15
	(a) Differences between enzyme & co enzyme (b) insulin	13
	(c) Describe electron transfer pathway in mitochondria (d) IUCD	
	(e) Enumerate fat soluble vitamins and describe any one	
Q-4	M C Q	0.5
1.	•	05
1.	a. 2	
	b. 14	
	c. 36	
	d. 38	
2.	The essential amino acids;	
	a. Are found in all dietary proteins	
	b. Can be formed in the body	
	c. Must be present in the diet	
	d. Are necessary to provide adequate amount of ATP	
3.		
	a. Vitamin E	
	b. Vitamin C	
	c. Vitamin A	
	d. Vitamin D	
4.	Which of the following hormone does not need a second messenger?	
	a. FSH	
	b. LH	
	c. Glucagon	
	d. Estrogen	
5.	The a law of	
	a. Nourish sperm and control their release	
	b. Provide blood testes barrier	
	c. Secrete testosterone	
	d. Secrete inhibin B	