M.Sc.(Zoology) (CBCS Pattern) Fourth Semester CBCS

ZOO-XIV / PSCZOOT14.4 - Special Group - Animal Physiology-III (Physiology of Brain, Nerve and Muscle)

	ages: 1 e:Three Hours	* 3 5 2 1 *	GUG/W/18/11432 Max. Marks : 80
	Notes: 1. 2. 3.	All questions are compulsory All questions carry equal marks. Draw well labelled diagram wherever necessary.	
1.		nd label the functional areas of the cerebral cortex and commerced to each area.	nt on the functions 16
		OR	
	b) Di i)	otes on: compare the composition of white and grey matter. scuss the functions of each of the following parts of the brain. Thalamus ii) Hypothalamus Cerebellum iv) Brain stem	
2.	Write a	n essay on molecular mechanisms involved in synaptic transmi	ission. 16
		OR	
		otes on: comment on bioelectric properties of neurons. list and describe the types of neurons.	
3.	List and	describe the receptor types according to their stimuli.	16
		OR	
	a) Co	otes on: ompare the functional characteristics of rods and cones. ve an account on epinephrine and nor-epinephrine.	
4.	Describ	e ultra structure of skeletal muscle.	16
		OR	
		otes on escribe sliding filament mechanism of muscle contraction. tra structure of neuromuscular junction.	
5.	a) Shb) Nec) Ox	t the following. ort term and long term memory. erve impulse propagation. eytocin lcium pump.	16

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