## M.Sc.- I (Zoology) (CBCS Pattern) Sem-I PSCZOOT02 - Paper- II : General Physiology

P. Pages: 1 Time: Three Hours		Hours	* 3 8 1 4 *	Max. Marks : 80	
	Notes:	1. 2. 3.	All questions are compulsory. All questions carry equal marks. Illustrate your answers with well labelled diagrams wherever necessary.	essary.	
1.	De	escrib	e in detail the enzyme classification and mechanism of enzyme act	ion. <b>16</b>	
			OR		
	a) b)		ve an account on structure of hemoglobin and mechanism of oxyge ve an account on chemical nature and biosynthesis of neurotransmi	<u> </u>	
2.	Describe in detail adaptations and regulatory mechanisms of thermoregulation in poikilotherms.			tion in 16	
			OR		
	a) b)	Wł	moregulation in Pisces.  nat is signal transduction? Comment on role of membrane receptor insduction.	s in signal	
3.	Write an account on cardiac cycle.			16	
			OR		
	a) b)		escribe in detail the classification of carbohydrates.  we an account on digestion and absorption of proteins in the gastroi	intestinal tract.	
4.	De	escrib	e in detail the chemistry and functions of cerebrospinal fluid.	16	
			OR		
	a) b)		ve an account on reflex action. hat is environmental stress? Elaborate on it.		
5.	At a)		t the following. romatophores.	16	
	b)	Bio	oluminescence.		
	c)	Ox	idation of fatty acids.		
	d)	Eg	g shell formation.		
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