## T.Y. B.Sc. Sem. I oct. 2014

## Zoology-II

## Physiology, Haematology and Regulation Code: 05049

[Total Marks: 75 (21/2 Hours)

N.B		All questions are compulsory.	
	(2) F	Figures to the right indicate full marks.	
	(3) [	Draw neat and labelled diagrams wherever necessary.	
1.		ne following:—	7
	(a) H	lydrolase and isomerase.	
		OR	7
		nzyme activation.	8
	(b) N	Mechanism of enzyme action.	**
	// -	OR	8
	(D) L	Derivation of Michaelis-Menten equation.	
0	Dosaribo	the following:—	
2.		Classification of chemical messengers.	7
	. (4)	OR	
	(a) (	Gama-aminobutyric acid.	7
	, ,	Mode of working of neurotransmitters.	8
		OR	
	(b) (	Catecholamine.	8
3.		the following:—	
	(a) H	Heat loss.	7
	/-\ F	OR	
		Feedback mechanism with example.	7
	(a)	Salt water ingestion and salt excretion.  OR	8
	(b) A	Acclimation and acclimatization.	
	(D) F	Accimation and accimatization.	8
4.	Describe	the following:—	
		Cardiac output.	7
	(4)	OR	7
	(a) E	indocrine regulation of male reproductive system.	7
		lyogenic heart.	7
	(5) 10	OR	8
	(b) M	lenstrual cycle.	
	(0) 10	ionaliual cycle.	8

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Write short notes on the following:-

(a) Effect of pH on enzyme activity.

OR

- (a) Transferase.
- (b) Aspartic acid.

OR

- (b) Purine -ATP.
- (c) Metabolic water with reference to terrestrial environment.

OR

- (c) Aestivation.
- (d) Suction pump in open circulation.

OR

(d) Chemical regulation of heart.

AC-Con.:3189-14.