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Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2013

(UG-CCSS)

Zoology – Complementary Course

Z03 C05 PHYSIOLOG	GY, TOXICOLOGY AND ETHOLOGY
Time : Three Hours	Maximum 30 Weightage
	ten either in English or in Malayalam. trations wherever necessary.)
I. Answer all twelve questions. Each	question carries ¼ weightage
A. Objective type question	
1 The movement of molecules to concentration is called	from an area of higher concentration to an area of lower
(a) Osmosis.	(b) Diffusion.
(c) Endocytosis.	(d) Exocytosis.
2 Study of Animal behaviour is o	called
(a) Ecology.	(b) Hydrology.
(c) Cytology.	(d) Ethology.
3 Site of Gas exchange in lungs	are
(a) Trachioles.	(b) Alveoli.
(c) Bronchioles.	(d) Pulmonary Chambers.
4 Mark the odd one	
(a) Monocytes.	(b) Lymphocytes.
(c) Neutrophils.	(d) Erythrocytes.
B Match the following	
5 Nissl granules	(a) Nephrone.
6 Formation of RBC	(b) Neuron.
7 Bowman's capsule	(c) Erythropoiesis.
8 Junction between nurons	(d) Haemopoiesis.

(e) Polycythemia.

(0 Synapse.

C Fill up the blanks:

- 9 The intravenous transfer of one person's blood to another person is called _____
- 10 The excretion of Nitrogenous wastes in the form of urea is called _____
- 11 Over secretion of somatotrophic hormones is adults leads to _____
- 12 Modification of a behaviour as a result of experience is called _____

 $(12 \text{ x}^{1}/_{4} = 3 \text{ weightage})$

II. Short answer questions. Answer all nine questions:

- 13 What is Active transport?
- 14 What is Thrombosis?
- 15 Write briefly on any two Respiratory pigments.
- 16 What is ECG?
- 17 What are Toxicants? Give two examples.
- 18 Explain Cori cycle.
- 19 What is Action potential?
- 20 What is Dialysis?
- 21 Explain Motivation.

 $(9 \times 1 = 9 \text{ weightage})$

III. Short answer questions. Answer five questions:

- 22 Explain different types of Nitrogen excretion.
- 23 Describe different types of Learning.
- 24 Differentiate between Myogenic and Neurogenic hearts.
- 25 Comment on carbon monoxide poisoning.
- 26 Write an account on the types of Hearts.
- 27 Describe biochemical changes during Muscles contraction.
- 28 What is Habituation?

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

IV. Essay questions. Answer any two questions

- 29 Write an essay on the transport of Carbon Dioxide.
- 30 Write an essay on the Social organization in Mammals.
- 31 Explain the mechanism of Nerve impulse transmission.

 $(2 \times 4 = 8 \text{ Weightage})$