BOWEN UNIVERSITY, IWO DEPARTMENT OF BIOLOGICAL SCIENCES 2012/2013 SECOND SEMESTER EXAMINATION

BLY 113: THE VERTEBRATE BODY

nsw	er ALL questions.	Time: 1hr 15mins	
	•	Matric No:	
	tment	Programme	
	SECTION A		
	What is bimodal breathing?		
		(2 Marks)	
	The three major respiratory organs	s in vertebrate animals are	
	The three epidermal layers of a,	reptilian skin are known as	
	What is a pheromone?	(0.11-1-1)	
	Mention any two advantages of ecdysis in rep (i) (ii)	otiles. (2 Marks)	
	The stomach of a bird is divided into two reand	egions, namely(2 Marks)	
	Mention any three functions of the stomach in (i) (ii) (iii)		
•	The three important glandular systems as vertebrates are (i)	ssociated with the digestive tract o (3 Marks)	
	(ii)		

Name	Matric No:			
9.	List and give the specific locations of the different types of vertebrae in a vertebra animal. (10 Marks			
	Type of Vertebrate Location in the body			
nswei	r True or False			
٥.	Birds are tetrapods True False			
1.	The muscular tissue makes up to one-third of the body mass of a vertebrate. True False			
2.	The lower appendages of a vertebrate are attached to the vertebral column by the pectoral girdle. True False			
3.	The largest single organ of the vertebrate is the(3 Marks)			
4.	Give one example of an involuntary muscle in the body of a vertebrate (1 Mark) (1 Mark)			
	SECTION B			
	With one example each list five components of the blood plasma. (5 Marks)			
20,508	Component Example			
Transmitter Charles				
_	List two granular leucocytes. (2 Marks) (ii)			
	As mammalian erythrocytes age, they are removed from the blood by phagocytic cells of the,			
	(* 3.2.13)			
	The valve between the left atrium and left ventricle is called (1 Mark)			

Name	Metric No.	
b	List seven functions of the vertebrate disculatory system (i) (ii) (iii) (iv) (v) (vi) (vii)	(1 Marks)
6,	Sperm maturation and storage take place in the	(1 Mark)
7,	List the three accessory glands that open into the male reproductive channels of mammals. (I) (II) (III)	(3 Marca)
8.	List four secondary sexual organs of mammalian females. (i) (ii) (iii) (iv)	(4 Marks)
10,	List two types of nephrons in the human kidney. (i) (ii)	(2 Marks)
11.	Enumerate five processes of urine formation in humans. (i) (ii) (iii) (iv) (v)	(5 Marks)
12.	List the two groups of hormones produced by the adrenal codex. (i) (ii)	(2 Marks)

Section A (35 Marks)	Section B (35 Marks)	Total score (70 Marks)
The state of the s	TO THE STEET OF A THE SERVICE STORE SWIFT THE WAY TO SHE WAS A SWIFT WHEN THE STORE SWIFT THE STORE SWIFT THE SERVICE SWIFT THE SWIFT TH	d secure taken a religion to a security and a security of