

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

BLY 112: ANIMAL DIVERSITY

INSTRUCTION: Answer ALL questions.

Time: 1hr 30 mins

Name _____

Matric No. _____

Department _____

Programme _____

SECTION A

1. The _____ are the first group of animals to achieve the organ-system level of organisation.
2. The three layers of tissue in triploblastic animals are _____ and _____.
3. The trunk of a rotifer is usually covered by a cuticular carapace known as _____.
4. The three basic parts of a rotifer's body are _____, _____, and _____.

Answer True/False in the following questions.

- | | |
|--|------------|
| 5. Nematodes are exclusively parasitic. | True/False |
| 6. Platyhelminthes are metamerically segmented. | True/False |
| 7. Digestion of food in annelids is extracellular. | True/False |
| 8. Bivalvia is the largest order of molluscs. | True/False |

9. What is metamerism?

(2 Marks)

10. List three classes under the Phylum Platyhelminthes

Class _____

Class _____

Class _____

(3 Marks)

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11. With **one** example each, give the **three** major classes under the Phylum Annelida.

Class _____ e.g. _____
 Class _____ e.g. _____
 Class _____ e.g. _____

(6 Marks)

12. Give **two** examples each of the following groups of animals

Cestodes: _____ and _____
 Nematodes: _____ and _____

(4 Marks)

13. Give one example each and the suitable habitat of the following groups of animals.

Class	Example	Habitat
Gastropoda		
Bivalvia		
Cephalopoda		
Polychaeta		

(8 Marks)

SECTION B

1. List the **seven** major phyla of the Kingdom Protista.

- (i) Phylum _____
- (ii) Phylum _____
- (iii) Phylum _____
- (iv) Phylum _____
- (v) Phylum _____
- (vi) Phylum _____

(7 Marks)

2. Give the name, location and function of the three-cell types of members of the Phylum Porifera.

S/n	Name	Location	Function
(i)			
(ii)			
(iii)			

(9 Marks)

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3. Enumerate seven differences between the polyps and medusae of the Phylum Cnidaria.

S/n	Polyps	Medusae
(i)		
(ii)		
(iii)		
(iv)		
(v)		
(vi)		
(vii)		

(7 Marks)

4. List the name and function of the four principal features of all chordates.

S/n	Name	Location
(i)		
(ii)		
(iii)		
(iv)		

(4 Marks)

5. Classify with one example each the Phylum Echinodermata.

S/n	Class	Example
(i)		
(ii)		
(iii)		
(iv)		
(v)		

(5 Marks)

6. List three disadvantages of the arthropod exoskeleton.

- (i) _____
- (ii) _____
- (iii) _____

(3 Marks)

Section A (35 Marks)	Section B (35 Marks)	Total score (70 Marks)