

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE GENERAL DEGREE LEVEL I (SEMESTER I)
EXAMINATION – AUGUST/SEPTEMBER 2017

Subject : Zoology

Course Unit : ZOO 1112 – Invertebrate Diversity I

Time: 01½ hours

Index No :

Answer the **Part A** and **any two** questions from **Part B**.

Illegible handwriting would be penalized.

Question No.	Marks
Part A	1
	2
	3
	4
Part B	1
	2
	3
Assessment	
Total	

Part A

4. (i). What is mass extinction?

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(ii). Mention the periods in Paleozoic era.

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(iii). State **two** rules of binomial nomenclature.

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(iv). With relevant examples mention the locomotory organelles found in phylum protozoa.

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(v). What is encystation? State its importance.

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2. (i). State **any three** types of cells found in mesenchyme of poriferans. Mention **one** function of each cell type.

Cell type	Function

(ii). State the asexual reproduction methods of poriferans.

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(iii). Name the larval stages found in poriferans.

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(iii). Mention **three** adaptations shown by Cestodes for their mode of life.

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(iv). List **two** important morphological features found in parasitic nematodes.

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(v). Mention **two** morphological features important for the mode of life of animals as Class Turbellaria.

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4. (i). Write **three** unique characters shown by members of Phylum – Annelida.

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(ii). What is meant by metamerism?

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(iii). State **two** advantages of metamerism.

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(iv). What are the major types of movements shown by Annelids?

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(iv). Mention **any three** characteristic features of phylum Cnidaria.

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(v). Mention asexual reproduction methods of Cnidarians.

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(vi). Name larval stages found in class Scyphozoa.

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(vii). Mention **any one** function of the following zooids found in Cnidarians.

Gastrozooids :

Dactylozooids :

Nectophores :

Gonophores :

3. (i). Name **any three** differences between Phylum Nematoda and Phylum Platyhelminthes.

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(ii). Name feeding habits found in Phylum Nematoda.

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(v). Define errant polychaetes and sedentary polychaetes.

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(vi). Name **two** errant polychaetes and **two** sedentary polychaetes.

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(40 minutes)

(40 marks)

Part B

1. **Answer both parts.**

(i). Write a brief account on protozoan reproduction.

(ii). Briefly discuss the water canal system of Phylum Porifera.

(25 minutes)

(20 marks)

2. Compare and contrast the characteristic features and life cycles characteristics of members of the order Digenea and the subclass Eucestoda.


(25 minutes)

(20 marks)

3. Briefly discuss the ecological and economical importance of Phylum-Annelida.

(25 minutes)

(20 marks)

 For the assessment

(20 marks)