

**ZOO201 – Animal Diversity-Invertebrates**

**Assignment No. 1 (Audio Assignment)**

Spring 2022

**Due Date: 31st May 2022**

**Your name and introduction of the course ZOO201 (30 sec)  
(Very Important)**

Start with the name of Allah the most beneficent and merciful.

Assalam o Alaikum!

First of all I would like to thank you for giving this opportunity to introduce myself.

My name is ( ) S\D\O (.....). I BORN IN (.....) FROM THESIL ( ) AND DISTRICT (.....).

I AM STUDENT OF (.....) SEMESTER OF Virtual University at the campus (.....)

My VU id is (.....)

**Introduction of course...**

I am studying this course Animal Diversity of invertebrates.

The code of this course is zoo201. This is covering a lot of about Animals life and the classification of animals and we study in this course only about invertebrate's animals. It enables me to distinguish the Animals' classification.

## What is Animal diversity? (30 sec)

To survive and disseminate successfully under various geographical regions the diversities that have arisen among the animals through adaptations and essential modifications of their external and internal morphology, size, shape, behavior etc. Is called animal diversity.

The diverse appearance of animals is mostly superficial; the bewildering variety of known forms, some truly bizarre, can be assorted among a mere half-dozen basic body plans. These plans are established during the embryonic stages of development and limit the size and complexity of the animals.

## What is Taxonomy and Animal systematics? (2 minute)

**Taxonomy** is the science of naming, describing and classifying organisms and includes all plants, animals and microorganisms of the world

**The Linnaeus Method, also known as Linnaean Taxonomy,** creates a hierarchy of groupings called taxa, as well as binomial nomenclature that gives each animal species a two-word scientific name. This method of giving scientific names to animals is typically rooted in Latin by combining the genus and species

The term **systematics** sometimes is referred synonymously with taxonomy. While, **taxonomy is plainly referred to identification, classification and naming of organisms; systematics is the evolutionary history of organisms through time.**

The main difference between taxonomy and systematics is that **taxonomy is involved in the classification and naming of organisms whereas systematics is involved in the determination of evolutionary relationships of organisms**. This means systematics ascertain the sharing of the common ancestry by different organisms.

## Differentiate between Diploblastic and triploblastic organisms? (2 minute)

**Diploblastic** organisms are organisms that develop from such a blastula and include cnidaria and Ctenophora, formerly grouped together in the phylum Coelenterata, but later understanding of their differences resulted in their being placed in separate phyla.

**Examples** of animals that developed from a diploblastic embryo are cnidarians and ctenophores. Word origin: Greek diplóos, twofold + blastikós, budding.

**Triploblastic** animals are the ones with three germ layers (a mesoderm as well as ectoderm and endoderm). The mesoderm allows them to develop true organs. Example: Flat worms and humans. Biology.

The key difference between diploblastic and triploblastic animals is that diploblastic animals produce two germ layers excluding mesoderm and triploblastic animals produce all three germ layers.

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**Thanks . . .**