THE LIVING WORLD

Notes for KITE Victers Zoology Class (Class :3) 3/12/2020

For viewing the class click the link below

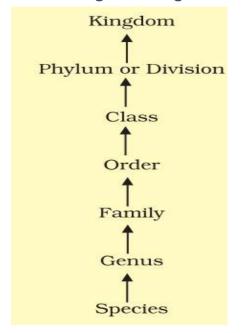
https://www.youtube.com/watch?v=MqWHtMGu06M&t=1342s



Arrangement of organisms into different categories or 'taxa' (from lower taxon 'species' to higher taxon 'Kingdom') based on their relationships is called taxonomic hierarchy.

TAXONOMIC CATEGORIES

- The hierarchy of steps in the taxonomic arrangement is called taxonomic Categories.
- All taxonomic categories together called taxonomic hierarchy



Taxonomic Categories showing
Hierarchial arrangement in
ascending order

Species

It is the Basic taxon in Taxonomi Hierarchy. It includes group of organisms with fundamental similarities.

Eg. Musea domestica Here, domestica indicates the specific epithet

Related genera are grouped under family. Genus Panthera, (including lion, tiger, leopard) and Genus Felis (including domestic cats, mountain cats, wild cats etc.) are coming under family Felidae Dog coming under family Canidas Man coming under family Hominidae

Genus

A group of related species, which resemble one another.

Example: Lion, Tiger and Leopard are three different species but all belong to the same genus Panthera.

Lion Panthera leo Panthera tigris Panthera pardus

It is a group of families resembling in a few characters Order Carnivora, includes families Felidae, Canidae and Ursidae etc (includes bears)

Man comes under Order Primata (Includes Apes, Monkeys, Lemur, Loris

പൊതുവിദ്വാദ്യാസ വകുഷ് Class

It is a group of related orders having some common characters.

Class Mammalia comprises 19 orders including Order Primata and Carnivora.

Pisces, Amphibia, Reptilia, Aves etc. are some other classes.

Phylam

It is group of related classes having some common features.

Eg.Phylum Chordata, Phylum Non-Chordata

In plants, term Division is used instead of phylum

Kingdom

All animals belonging to Kingdom Amilmallia

All Plants belonging to Kingdom Plantag.

Systematics

Branch of biology deals with the study of relationships and diversities among different kinds of organisms and evolutionary relationship between them.

Common Name	Biological Name	Genus	Family	Order	Class	Phylum/ Division
Man	Homo sapiens	Homo	Hominidae	Primata	Mammalia	Chordata
Housefly	Musca domestica	Musca	Muscidae	Diptera	Insecta	Arthropoda
Mango	Mangifera indica	Mangifera	Anacardiaceae	Sapindales	Dicotyledonae	Angiospermae
Wheat	Triticum aestivum	Triticum	Poaceae	Poales	Monocotyledonae	Angiospermae

Systematics

Branch of biology deals with the study of relationships and diversities among different kinds of organisms and evolutionary relationship between them. Word 'Systematics' was derived from Latin word 'Systematic arrangement of organisms.

'Systema Naturae' is the title of publication by Linnaeus

Assignment

Prepare the hierarchical arrangement of taxonomic categories of the following organisms in ascending order

Cat

Dog

Lion

Houseffly

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