

Ch. LIVING WORLD

Features	Defining characters
Growth Reproduction	Characteristic characteristic
metabolism	defining
consciousness	defining

No. of species → 1.7-1.8 million

- ① Identification
- ② Classification
- ③ Nomenclature

Binomial Nomenclature

- Carl Linnaeus

Systema Naturae

- Generic + specific Epithet. (Latin)
- Author's name in abbreviated form.
- Prints - Italics
- handwritten - Underlined Separating.

International Code of Botanical Nomenclature

International Code for Zoological Nomenclature

Kingdom
↑
Phylum/division
↑
Class
↑
Order
↑
Family
↑
Genus
↑
Species

Common Name	Biological Name	Genus	Family	Order	Class
Man	Homo Sapiens	Homo	Hominidae	Primate	Mammalia Phylum-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

Botanical Gardens:

Ex-situ Conservation.

- Collection of living plants.
- Kew botanical Garden (England)
- Indian Botanical Garden, Howrah.
- National Botanical Research Institute, Lucknow.

Museum:

- Preserved plants & Animals.
- Large animals stuffed.
- Insect box.

Key:

- based on Contrasting characters
- Generally in pairs → Couplet.
- based on Similarities & dissimilarities
- Each statement is called lead.

Herbarium:

Store house of plants

- ① dried
- ② Pressed
- ③ Preserved
- ④ Pests on sheets

Zoological Park:

- wild animals are kept.

- Label
- ① name of plant
 - ② name of collector
 - ③ family
 - ④ place of collection.

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