

UNIT I: DIVERSITY IN THE LIVING WORLD

1. THE LIVING WORLD**1 × 2 = 2 Marks****ROOT POINTS**

1. **Botany** is the scientific study of plants.
2. The **living World** consists of all kinds of organisms ranging from very small microscopic algae, fungi to giant sized coniferous redwood trees.
3. All living organisms exhibit **birth, growth, reproduction, ability to sense the environment, self-replication, metabolism, evolution, ageing and mortality.**
4. The diversity in the life forms of various organisms is called **Bio-diversity.**
5. **Taxonomy** deals with **identification, nomenclature and classification** of organisms.
6. **ICBN** stands for **International Code for Botanical Nomenclature**
7. Based on the resemblances and differences, each organism is identified and assigned a scientific name comprising two words; **generic name** (Genus) and **specific name** (Species).
8. The taxonomic studies of plants and animals are useful for **agriculture, forestry, industry** and for knowing our bio-resources and biodiversity.
9. **Live specimens** of plants are found in **botanical gardens.**
10. **Herbaria and museums** contain dead but **preserved specimens.**
11. **Key** is a taxonomical aid for identification of plants and animals based on certain similarities and dissimilarities.
12. **Lead:** Each statement in the key is called a lead. [IPE]
13. **Couplet:** The keys based on the contrasting characters in a pair are called couplet. [IPE]
14. **Species** is the basic unit of classification. [IPE]
15. **Manual** is a small book designed for ready reference. [IPE]
16. **Monograph** is a specialist book written on a single (any one) taxon. [IPE]

FRUITY Qs OF IPE

1x 2= 2 Marks

1. What does ICBN stand for?
2. What is flora?
3. Define the terms 'couplet' and 'lead' in taxonomic key.
4. What is meant by manuals and monographs?
5. What is the basic unit of classification? Define it.
6. Give the scientific name of Mango. Identify the generic name and specific epithet.

BULLET MASTER'S**BOT BEATS!**

A 'single organism' cannot exist without the interaction, help and advantages from others.

Like **UNITY IN DIVERSITY**,

all the emotions in the human life that collectively come under

"THE LIVING WORLD" which is rich with biodiversity.

The living world also contains connecting link between living and non-living like VI-RUSES. They ofcourse show a negative impact as well as a few positive ones.

Just like, a knife can be used both for chopping and killing also.