

Taxonomy.

Taxonomy is that branch of biology which deals with identification, nomenclature and classification. The term taxonomy was first introduced by french botanist A.P de Candolle (1813)

~~According to some scientist~~ systematics is the study of the diversity of plants, their identification, nomenclature, classification and evolution. The term systematics was coined by Z.B Simpson (1961).

Types of taxonomy:

1. a-taxonomy:

Taxonomy based only on external morphological features is known as a-taxonomy.

2. w-taxonomy:

Taxonomy based on different character like external morphology, anatomy, cytology, embryology, Biological relationship, is known as w-taxonomy.

3. Adansonian taxonomy:

It is the branch of modern taxonomy where classification of plant kingdom is made on the basis of phylogenetic relationship.

• Taxon:

In classification the classificatory unit of any rank is called taxon. For example - Species, Genus, family etc.

Identification:

Identification is the determination of similarities and dissimilarities between two elements.

Nomenclature:

Nomenclature is a simple system in which the naming of a newly discovered taxon is correctly done.

Common name vs Scientific name.

- 1) Common name are not universal. Scientific name is universal.
- 2) Common name do not provide information regarding generic and family relationship of taxa. Scientific name provide information regarding inter relationship among different taxa.
- 3) A well known plant may have different name in different countries or even in different part of some country.
~~Scientific name.~~
A well known taxon has only one Scientific name.
- 4) Many plants do not have any common name at all. All known species have scientific name.