

Vidya Bhawan Balika Vidyapeeth Lakhisarai

Arun Kumar Gupta

Class 11th

Sub. Biology

Date:- 12.11.20

Types of Taxonomies

For the suitability in studies various categorizations has been done in taxonomy.

The important taxonomies are as follows

1. Numerical Taxonomy

It is carried out by quantitative assessment of similarities and differences in order to make objective assessments. It is now easily carried out using computers based on all observable characteristics. Number and codes are assigned to all the characters and the data are then processed. In this way, each character is given equal importance and at the same time hundreds of characters can be considered.

2. Cytotaxonomy

Cytotaxonomy is based on cytological information like chromosome number, structure, behaviour and type of chromosomes. For example,

(i) Chromosome number is constant for a species, e.g., 46 in man, 48 in apes and potato, 20 in maize, 16 in onion and 8 in *Drosophila*.

(ii) Behavior of chromosomes was used by taxonomists during pairing and banding patterns to understand the relationships between species, e.g, Origin of humans from apes, origin of wheat, etc.