PLANT KINGDOM

Points To Remember: CLASSIFICATION:

Artificial System of Classification :

- Used superficial morphological characters.
- Based on a few characteristics like habit, colors, number and shape of leaf.
- Mainly based on vegetative characters.
- Such system developed by Linnaeus.

Natural System of Classification :

- Based on natural affinities among organisms
- Included external as well as internal features like anatomy, embryology and phytochemistry.
- Developed by George Bentham and J. D. Houser

Phylogenetic System of Classification :

Based on evolutionary relationships between the various organisms.
Organism belongs to same taxa have a common and allows.
Developed by Hutchinson.

Numerical Taxonomy:

urusing con Based on all observable characteristics

Data processed ofter assigning number and codes to all the characters.

Cytotaxonomy:

- Based on cytological information.
- Gives importance to chromosome number, structure and behaviour.

Chemotaxonomy :

Based on chemical constituents of the plants.

ALGAE :

- Chlorophyll bearing, simple, thalloid, autotrophic and mostly aquatic organisms. Moist stone, soils and wood are the other habitat.
- The size ranges from microscopic unicellular forms like *Chlamydomonas*, to colonial forms like Volvox and to filamentous forms like Ulothrix and Spirogyra. A few marine forms such as kelps, form massive plant bodies.