

BIOLOGICAL CLASSIFICATION

(grouping of organisms based on a criteria)



TYPES OF CLASSIFICATION



Natural Classification

- Shows importance of plants.
- Shows they are plants can be a member of more than one group.

Artificial Classification

- Based on one or two morphological characters.
- eg. Leaves
- Artificial classification of plants (eg. leaves / groups)

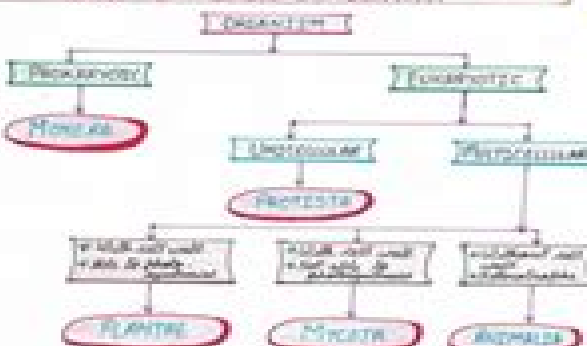
1. **Stem bearing plants** (Angiosperms)

2. **Non-flowering plants** (Gymnosperms, Conifers, Cycads, Ginkgo, etc.)

FIVE-KINGDOM CLASSIFICATION

- Prepared by R.H. Whittaker in 1969.
- It is the most valid system of classification.

Cell Structure / Complexity of organism	Number of cells	Mode of nutrition	Reproduction	Phylogenetic Evolution
Prokaryotic	Unicellular	Autotrophic	Asexual	Monera
Eukaryotic	Unicellular	Heterotrophic	Asexual	Protista
Eukaryotic	Multicellular	Autotrophic	Asexual / Sexual	Plantae
Eukaryotic	Multicellular	Heterotrophic	Asexual / Sexual	Fungi
Eukaryotic	Multicellular	Heterotrophic	Asexual / Sexual	Animalia



Kingdom - Monera

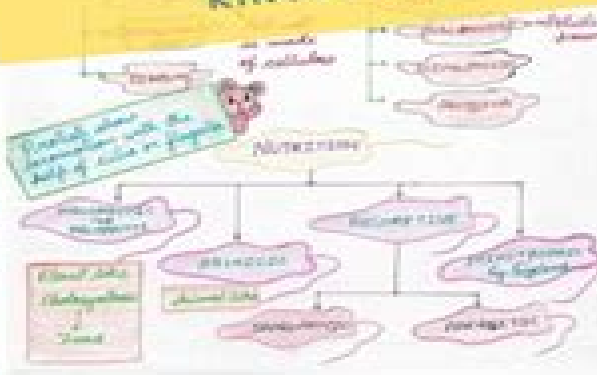
- Bacteria / Prokaryotic organisms.
- Pro- formation / less developed; karyo- nucleus.
- Nucleus membrane absent.
- Nucleolus absent.
- Two chromosomes absent.
- Prokaryotic cell organisms absent.

A prokaryote is a unicellular organism that lacks membrane bound nucleus & cell organelles.



Biological Classification Study Notes

- FIVE KINGDOM CLASSIFICATION
- KINGDOM MONERA
- KINGDOM PROTISTA
- KINGDOM MYCOTA
- KINGDOM PLANTAE
- KINGDOM ANIMALIA



Kingdom - Animalia

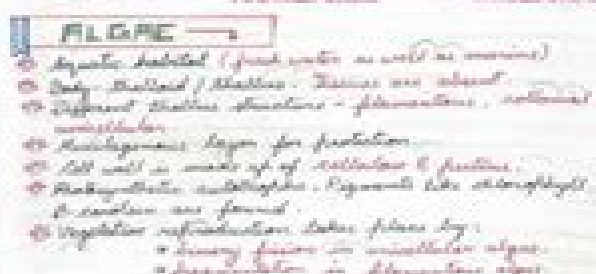
- They are multicellular organisms which do not form a colony.
- They are eukaryotic organisms with no cell wall.
- Mode of nutrition is heterotrophic i.e. they depend on other organisms for food.
- Mode of reproduction is sexual. However, asexual reproduction is also found in lower forms.
- During development, multicellular embryo is formed from the zygote.
- They require oxygen for aerobic respiration.

LEVELS OF CLASSIFICATION



Kingdom - Plantae

- They are eukaryotic and autotrophic organisms.
- They have cell walls.
- They are found in both asexual and sexual reproduction.
- They are found in both asexual and sexual reproduction.
- They are found in both asexual and sexual reproduction.



Classification Study Guide Biology

B Lingard



Classification Study Guide Biology:

Classification Study Guide Biology Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Classification Study Guide Biology**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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