

Plant Kingdom



IMPORTANT POINTS

Fungi,monerans, protists were earlier included in plant Kingdom but not now. BGA is not an algae anymore

Various Systems of classification

Earlier systems were based on gross morphology like habitat colour, no. & shape of leaf

Artificial system

Based mainly on vegetative characters (easily affected) or on the androecium structure. Eg- Linnaeus classification of plants based on no. Of androecium. It had drawbacks like it separated closely related species, were based on few characters & equal weightage given to vegetative & sexual characters.

Natural system

Based on natural affinities among organisms & consider external,internal,ultra structure, an atomy, embryol egy photochemistry. Eg-George Bentham & Joseph **Dalton Hooker** classification of flowering plants.

Phylogenetic system

Most acceptable, based on evolutionary relationships, organism a belonging to Same taxa have common ancestor.

Numerical taxonomy

Based on observable characters using computers(no. & codes are assigned to each character) each character is given equal importance.

Cytotaxonomy

Based on chromosome no., structure, behaviour

Different kinds of taxonomy

Chemotaxonomy

Chemical constituents of the plant to resolve mountlessions

ALGAE/THALLOPHYTA

Introduction

They are chlorophyll bearing simple thalloid, autotrophic & largely aquatic (both fresh&marine) org. Some algae form association with fungitlichen). with animals (on sloth bear)

Economic importance

They fix 1/2 of the total CO2. They are primary producers & is energy source for aquatic animals Eg-PORPHYRA. LAMINARIA, SARGASSUM are used as food. Algin (brown algae) & carrageen (red algae) produce hydrocolloids/water holding subst.) Agar is produced from Geledium & gracitaria. Chlorella and spirullina are used as space food (SCP-Single cell proteins

Size & form

Chlamydomonas(microscopic unicellular), volvoxi colonial), ulothrix & spirogyra@litament ous), kelps(massiv e marine form)

Reproduction

Vegetative By fragmentation. Each fragment develops into thallus

Asexual

By production of zoospores (motile)

Sexual

By fusion of 2 gametes

Isogamous

Gametes are similar in size 1) if motilechlamydomonas 2) if nonmotile-spirogyra

Anisogamous

Gametes are different in size but of same capability to move Eg-some species of chlamydomonas i.e. **Udorina**

Occameous

Female gamete is non motile but male is motile Eg- volvox, fucus

Section 1 Guide The Plant Kingdom

Victor M. Corman

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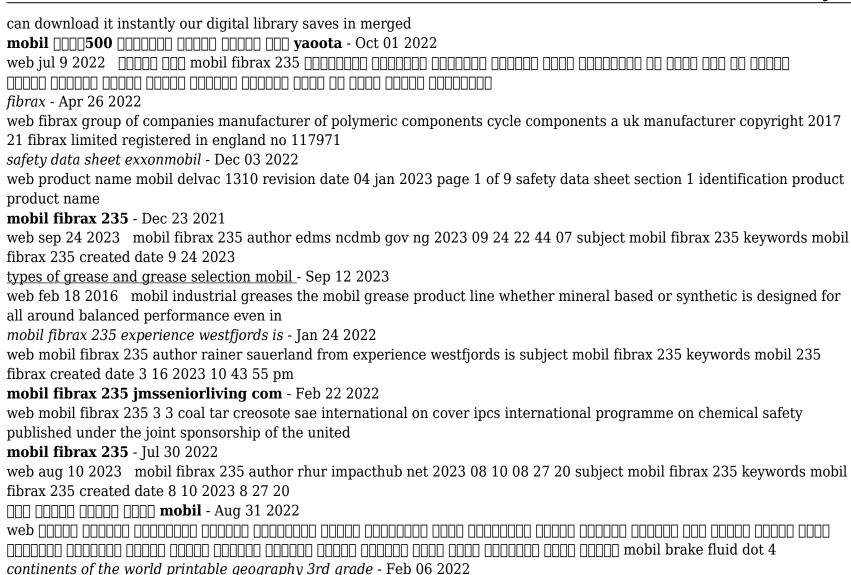
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