

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, anatomy, embryol ogy,photochemistry. Eg-George Bentham & Joseph Dalton Hooker classification of flowering plants

Phylogenetic system

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

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Numerical taxonomy Based on observable characters

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 confusions

ALGAE/THALLOPHYTA

Introduction

They are chlorophyll bearing simple thalloid, autotrophic & largely aquatic (both fresh&marine) org. Some algae form association with fungillichen), 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 spirulling are used as space food (SCP-Single cell protein)

Size & form

Chlamydomonas(microscopic unicellular),volvox(colonial),ulothrix spirogyra(filament 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

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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

Oogamous

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

Plant Kingdom Study Guide

Chao Zhang

Plant Kingdom Study Guide:

The Top Books of the Year Plant Kingdom Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Plant Kingdom Study Guide: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Plant Kingdom Study Guide: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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