

Botany

Lecture - 01

Physics Wallah

Rupesh Chaudhary Sir



Topics to be covered

4 chaplers



1

2

3

4

Wed : Test

THUR

FRIDAY: "

SUMMARY

Algae

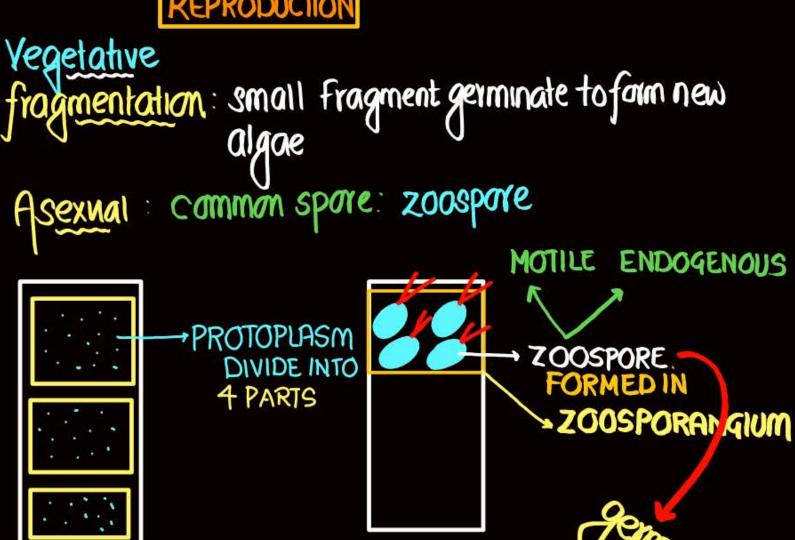


- * (ROOL, Stem, leaves, embryo, flower, seed, fruit: ABSENT
- * Thalloid, autotrophs, chlarophyll (Phycology).
- * Aquatic (fresh, marine H2O,) but Terrestal also
- * Good, soil, most stone, animal (Sloth Bear):
- * Algae + Fungus —
- Vascular Tissue (xylem, phloem): ABSENT
- ZYGOTE ~

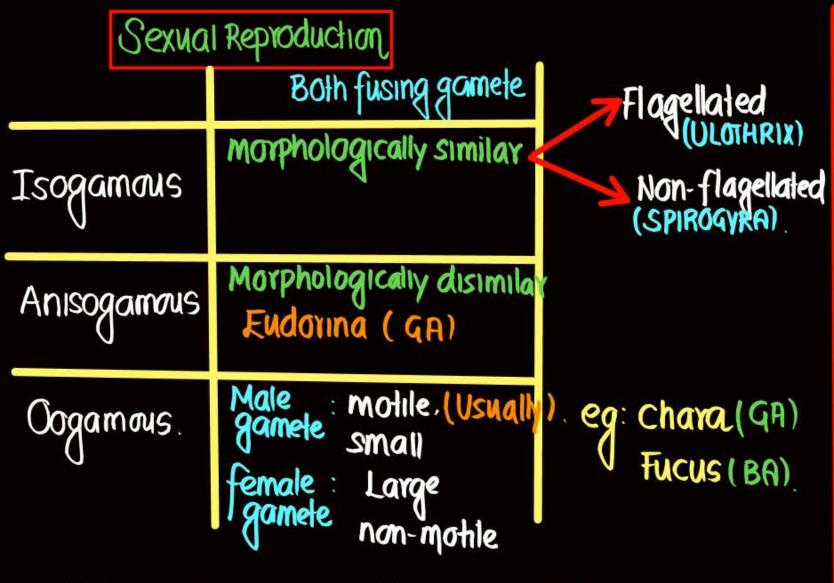
FORMS

- * filamentous: Ulothrix, spinogyra (GREEN)
- Colonial: Yolvox (GREEN)UU
- Massive Body: KELPS (BROWN) (LARGE SIZE)

REPRODUCTION



UIOTHRIX



NOTE: CHLORELLA: (PROTISTA): PROTEIN SOURCE SPACE TRAVELLERS

IMPORTANCE

- * HAIF OF CO, FIXIN (Photosynthesis)
- * Main producer
- * increase dissolved 0, in H2O
- * Aquatic animals depends on algae.
- * Porphyra(RED), Sargassum (Brown), Laminaria (Brown)

 Among 70 marine species: FOOD.

 Phycocolloids/Hydrocolloid.

H2O holding Capacity.

Agar-agar: Gracilaxia, Gelidium (RED)

Used in lab to graw microbes

Ice cream, Jehies.

(RED)

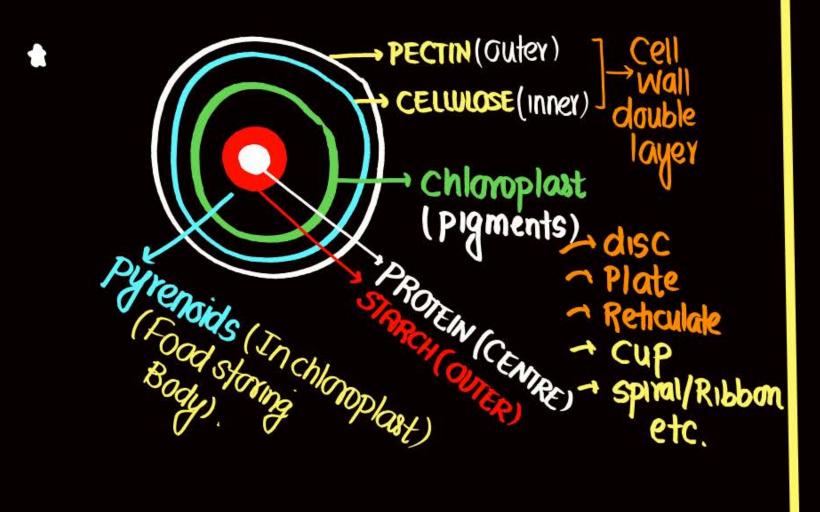
Algni

(Brown)

Classification (Pigments)
Chlorophyceae — Green algae Vege

- * Chla, b, Carotene, xanthophyll.
- * Unicellular, Colonial, Filamentous.

Chlamydomonas Volvox Ulothrix, Spirogyra



Vegetative: fragmentation

Asexual: 200spore (Flagella equal, apical end)

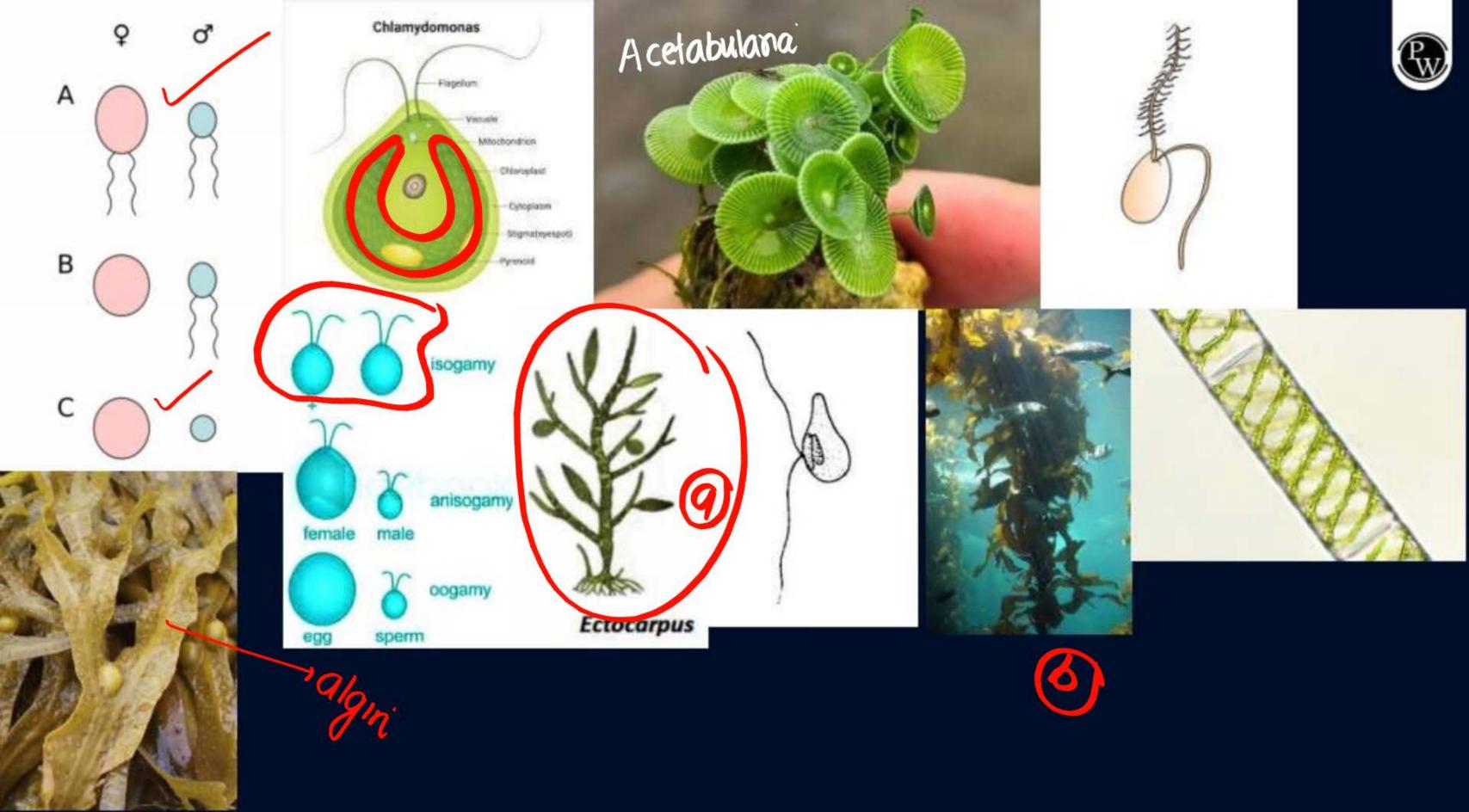
sexual: 150g, anisogamous, Oogamous

FOOD: Mainly starch

Some: Oil.

BROWN ALGAE/PHEOPHYCERE

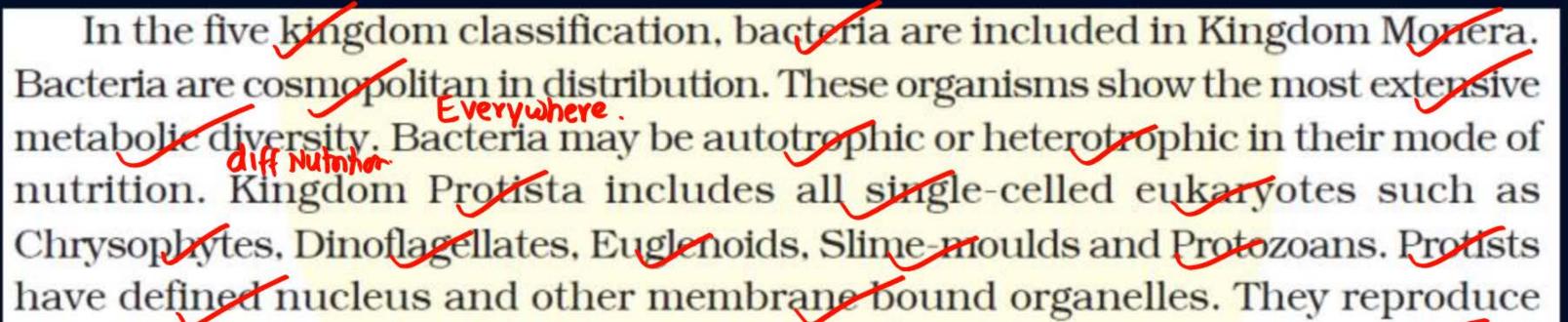
- * Chla, c, carotene, xanthophyll (Fucoxanthin)
- * Olive green to diff shades of Brown.
- * MARINE, MULTICELLULAR
- * LARGE SIZE/KELPS.
- BODY: SIMPLE, Branched, Filamentous (Ectocarpus) OR PROFUSELY (KELPS) → 100 m.
- * Stored FOOD: Complex carbohydrate (Laminarin & Mannitol).



SUMMARY



Biological classification of plants and animals was first proposed by Aristotle on the basis of simple morphological characters. Linnaeus later classified all living organisms into two bingdoms – Plantae and Animalia. Whittaker proposed an elaborate five kingdom classification – Monera, Protista, Fungi, Plantae and Animalia. The main criteria of the five kingdom classification were cell structure, body organisation, mode of nutrition and reproduction, and phylogenetic relationships.



both asexually and sexually. Members of Kingdom Fungi show a great diversity

in structures and habitat. Most fungi are saprophytic in their mode of nutrition.



They show as exual and sexual reproduction. Phyconycetes, Ascomycetes, Basidiomycetes and Deuteropycetes are the four classes under this kingdom. The plantae includes all enkaryotic chlorophyll-containing organisms. Algae, bryophytes, pteridophytes, gymposperms and angiosperms are included in this group. The life cycle of plants exhibit alternation of generations – gametophytic and sporophytic generations. The heterotrophic eukaryotic, multicellular organisms lacking a cell wall are included in the Kingdom Animalia. The mode of







Homework from YAKEEN NEET 2.0 2026 Module

®

T: Algae + Fungi (Phycomy)

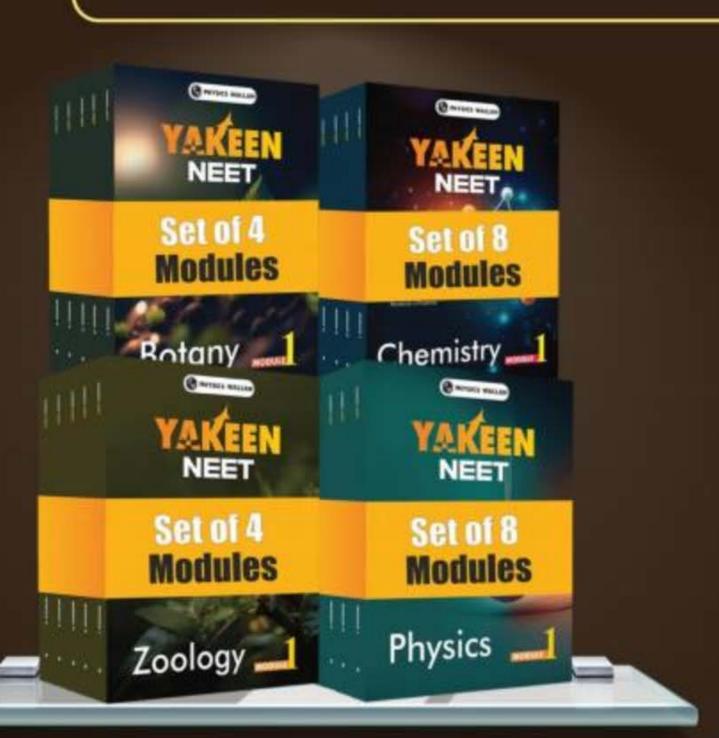
W: A,B,D (30 minutes)

T: NCERT READ (BIOLOG CLANY)

F: Cell cycle NCERT REDO



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