

2026

**Biological Classification** 

**Botany** 

Lecture - 05

**Rupesh Chaudhary Sir** 

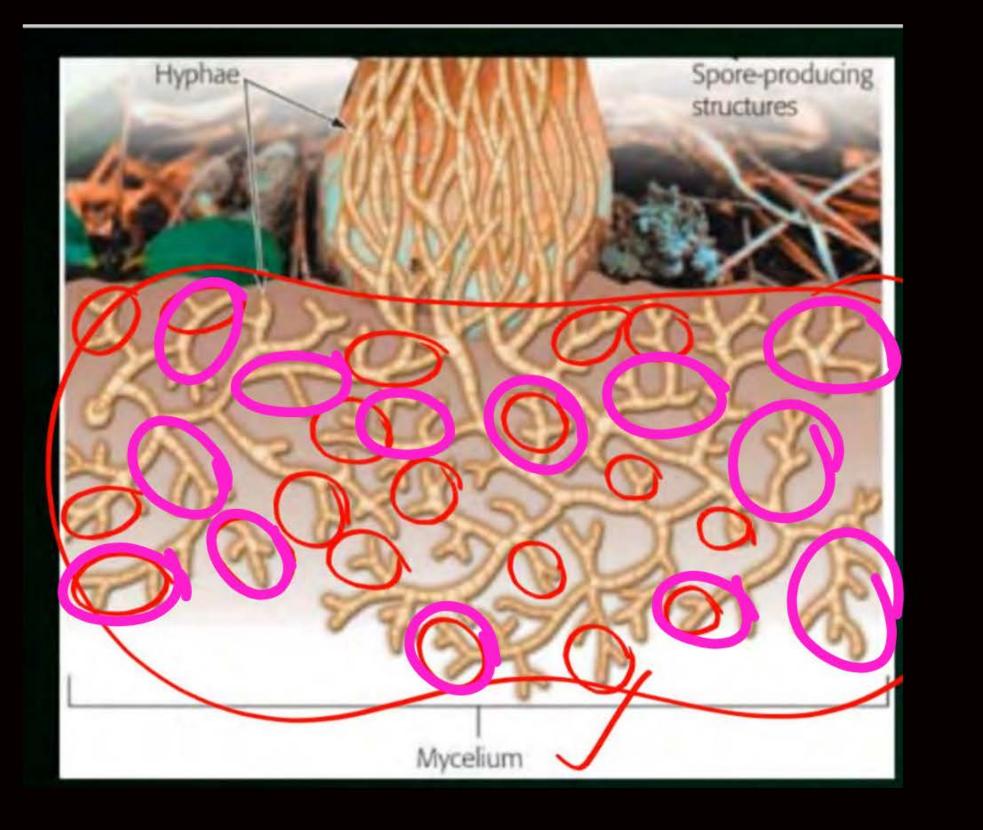




## Topics to be covered)



- **F**UNGI
- 2
- 3
- 4



#### Character

- \* Hetrotroph
- → Saprophytic
- simple soluble organic part compound.

Absorb

- → Symbiotic
  - eg: LICHEN

    Mycorrhiza

    (Fungus+Root of

    Higher

    Plant)
- → parasitic

eg: Albugo: whitespot (Mustard)

Puccinia: Rust

ust (wheat)

Ustilago: Smut

Fungi

- \* CELLWALL: Chitin&Polysaccharide
- \* Mostly: Multicellular, Filamentous

BUT yeast: Unicellular, (Beer, Bread)

\* Antibiotic: Penicillin (Penicillium)

Mushroom: Edible (Agaricus)

& Nonedible/poisonous: Toadstool.

PREFER: Warm, humid place. (Air, H2O, soil, plant, animal, Bread,

Rotten fruits (Cosmopolitan:

Found everywhere (diversity in Habitat)

Long, slender(thin), Thread: Hyphae

TO FORM CRISS CROSS

() SEPTATE wall septa (Olversity)

2) Aseptate

SEPTA ABSENT

Multinucleated

Protoplasm

(Coenacytic)



CRITERIA: 1 Fruiting Body

2) spore formation

3 Morphology of mycelium

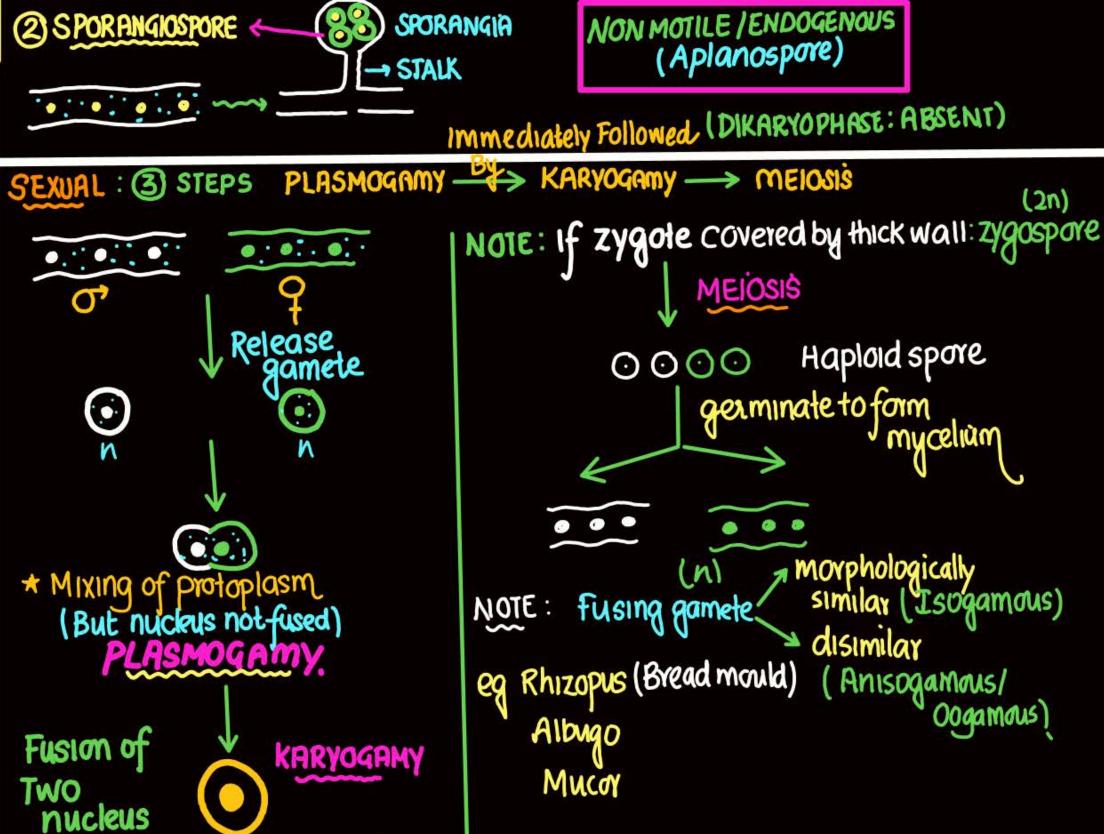
Phycomyceles 2 SPORANGIOSPORE -

- \* Aquatic, dead decaying, moist damp Place, parasitic (Obligate): Albugo (Mustand)
- Aseptate, coenocytic, multinuclealed Asexual
  - (I) ZOOSPORE (Z)





Otile/flagellated Endogenous.



ZYGOTE(2n) / OOSPORE

(2n)

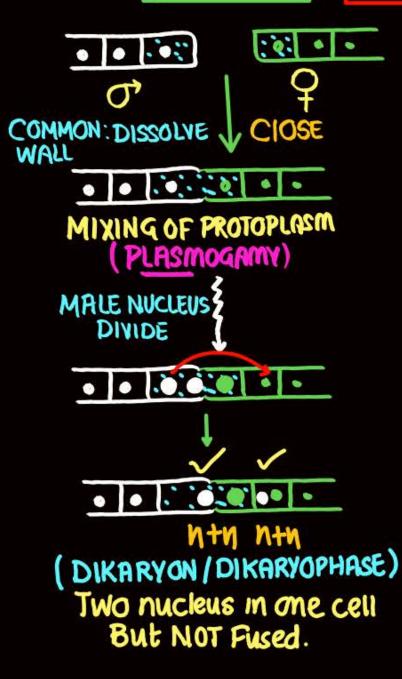
#### ASCOMYCETES -Sactungi?

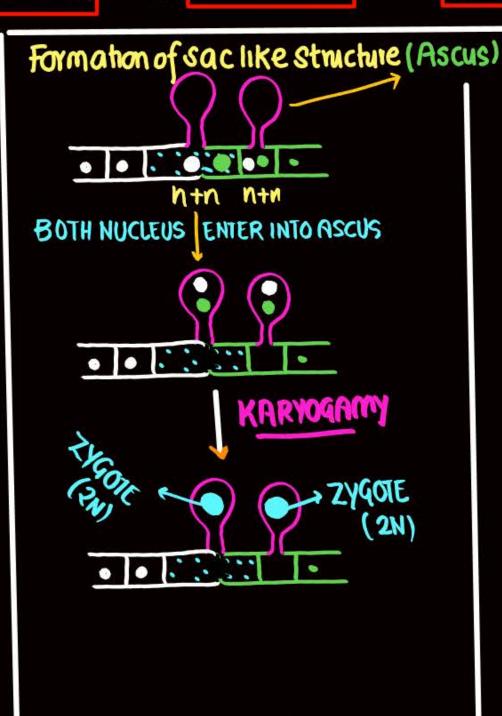
\* parasitic, saprophylic, decomposer, coprophilous (grow on dung) \* Mycelium: Branched, septate. \* Mostly Multicellular.

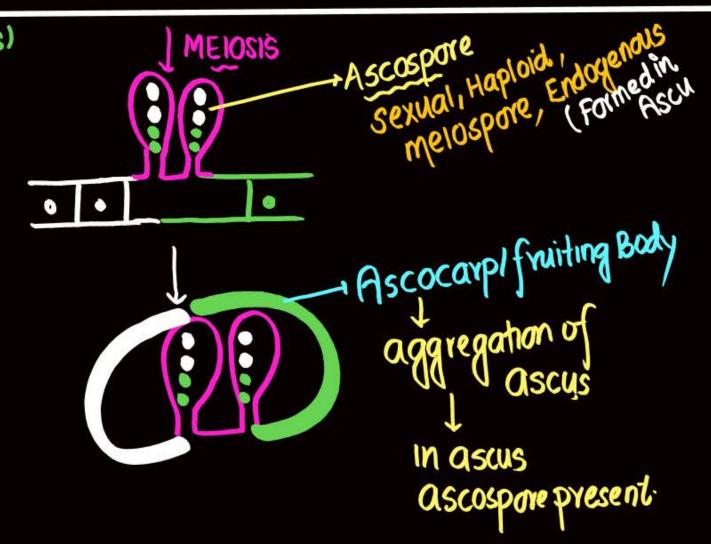
\* yeast (Sacchromyces): Mycelium absent.

\*\*DELAY

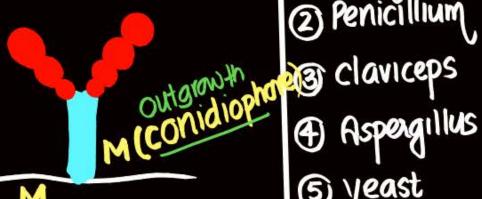
SEXUAL REPN. PLASMOGAMY —> DIKARYOPHASE —> KARXOGAMY —> MEIOSIS







Asexual Repn CONIDIA



- \* mon-motile
  - Thin walled
  - Exogenous
  - Chain: present.

#### Example

- 1 Morels & Truffles : Edible
- 2 Penicillium
- 1 Aspengillus
- 5 yeast
- 6 Neurospora (Biochemical & genetics work).



### Homework from YAKEEN NEET 2.0 2026 Module



Module
(Indiais

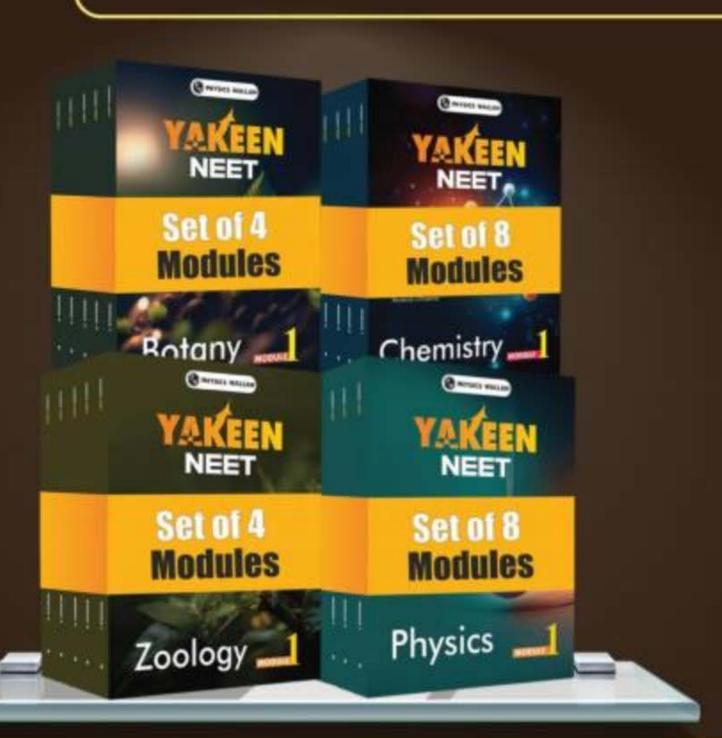
Best module)

Recompcetes

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