



Plant Kingdom - III

Nurture Course on Plant Kingdom

“Be stronger than excuses”



Sandeep Nodiyal (Botany)

Ex Aakash institute, Ex Career point, Ex VMC institute

Experience of 8+ years

“Motivate thousands of students to achieve their dream medical college....”

Hi, hello

How are
you all

**For All Updated related
to course and classes Join :-**

Biology by Sandeep nodiyal sir ✓

“On Telegram”

India's Best Educators For Biology, Physics And Chemistry

Special Classes



HINDI CELL STRUCTURE & FUNC...

THE CELL (IN DETAILS)L-4 WITH
QUESTION PRACTICE . NEET...

Ended on May 9, 2020

Sandeep Nodiyal



HINDI PLANT PHYSIOLOGY

MOCK TEST COMPLETE
BOTANY(CLASS 11 & 12TH) NEET...

Ended on May 8, 2020

Sandeep Nodiyal



HINDI CELL STRUCTURE & FUNC...

THE CELL (IN DETAILS)L-3 WITH
QUESTION PRACTICE . NEET...

Ended on May 8, 2020

Sandeep Nodiyal



HINDI CELL STRUCTURE & FUNC...

THE CELL (IN DETAIL)L-2 NEET
2020/2021

Ended on May 7, 2020

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HINDI CELL STRUCTURE & FUNC...

THE CELL(IN DETAIL) NEET
2021/2022

Ended on May 6, 2020

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HINDI PLANT PHYSIOLOGY

AMBITIOUS MOCK TEST PRACTICE
FULL SYLLABUS NEET 2020

Ended on May 5, 2020

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PLUS NEET UG Subscription

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 USE PROMO CODE TO GET 10%OFF SNSIR OR SNSIRLIVE		

Botany topics of class 11th

- ☐ Living World
- ☐ Biological classification
- ☐ Plant kingdom
- ☐ Morphology of plants
- ☐ Anatomy of plants
- ☐ Cell
- ☐ Cell cycle
- ☐ Transportation in plants
- ☐ Mineral nutrition
- ☐ Photosynthesis
- ☐ Respiration in plants
- ☐ Plant growth & Development
- ☐ Biomolecules

Botany topics of class 12th

- ☐ Reproduction in organism
- ☐ Sexual reproduction in flowering plants
- ☐ Genetics and variations
- ☐ Molecular basis of inheritance
- ☐ Microbes in human welfare
- ☐ Strategies in food enhancement (Plants part)
- ☐ Organism and populations
- ☐ Ecosystem
- ☐ Biodiversity & its conservations
- ☐ Environmental issues
- ☐ Biotechnology & its principle

Enthuse (12) - Evening (NEET 2022)
Main batch

Starting 3 Sept Aug to 30 Sept
MWF @ 7:15 PM

Topic :-Molecular Basis Of inheritance
Part 2

Use referral code “SNSIR”

Enthuse (12) - Backlog Bridge course (NEET 2022)

MWF@12 PM
Starting - 3 sept to 29 sept

Topic :-Sexual reproduction in Flowering
plants- part 2

Use referral code “SNSIR”

11th class Nurture (NEET 2023)

TTS @ 6:15 PM

Started on:- 4 Sept to 30 Sept 2021

Topic:- Plant Kingdom

Use referral code “SNSIR”

11th class Nurture Bridge course (NEET 2023)

*Must for
New students*

MWF @ 10 AM

Started on:- 3 Sept to 29 Sept 2021

Topic:- Protista (Backlog)

Use referral code "SNSIR"

Dropper Achievers batch (NEET 2022)

TTS@ 10:00 AM

Started on:- 11 Sept to 30 Sept

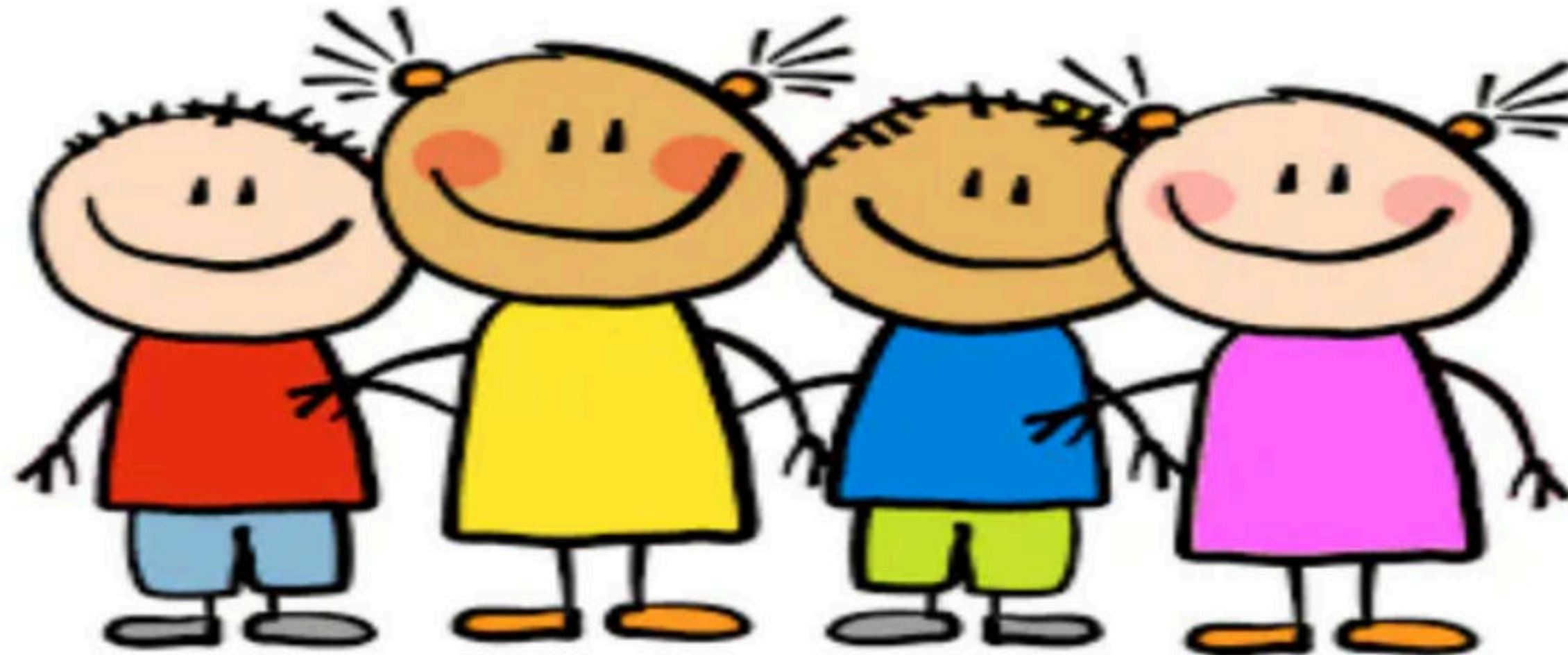
Topic :- Genetics and Variations part 2

Use referral code “SNSIR”

“ASK YOUR DOUBTS”

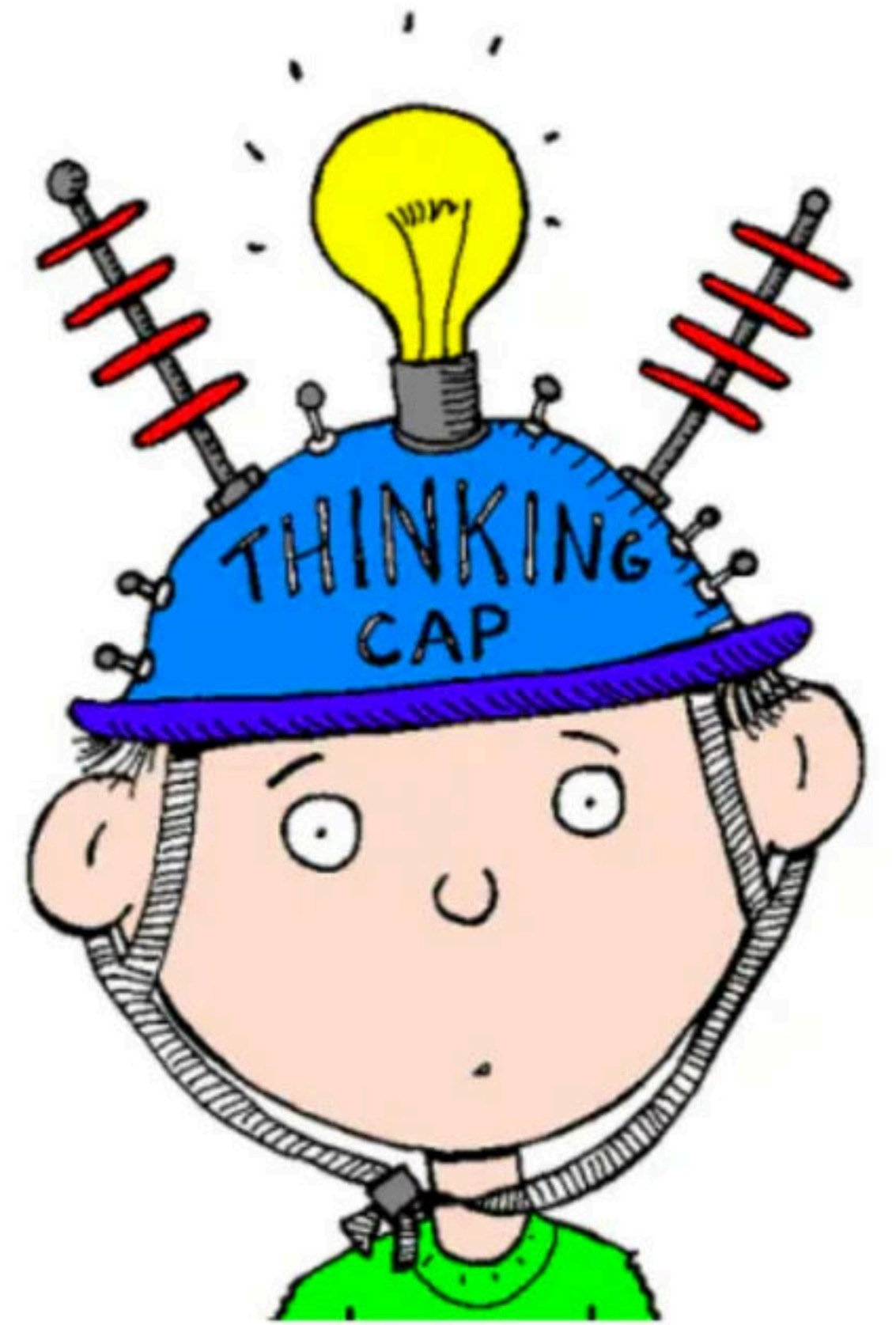
ON Doubt session IN BETWEEN COURSES

ASK ME ANYTHING OF ANY TOPIC **IN SPECIAL CLASS SESSIONS** NAMED AS **“ASK YOUR DOUBTS”** REGARDING UNACADEMY, REVISION, HOW TO STUDY ANYTHING



सोचने का काम कम कर पढ़ाई
ज्यादा कर!!!

❖ Notes, DPP, ncert underlines are provided by
me Only when the chapter completed In
update section



Steps to be Followed If You want to study in my guidance 😊

- 1. Complete focus on your lectures**
- 2. Ask your doubts in doubt sessions Only**
- 3. Learn class notes Properly**
- 4. Learn underline portion of ncert provided by me**
- 5. Do DPP**
- 6. Faithfully give the test taken by me**
- 7. Give any test Of any educator or practice any MCQ book. (Quality check)**

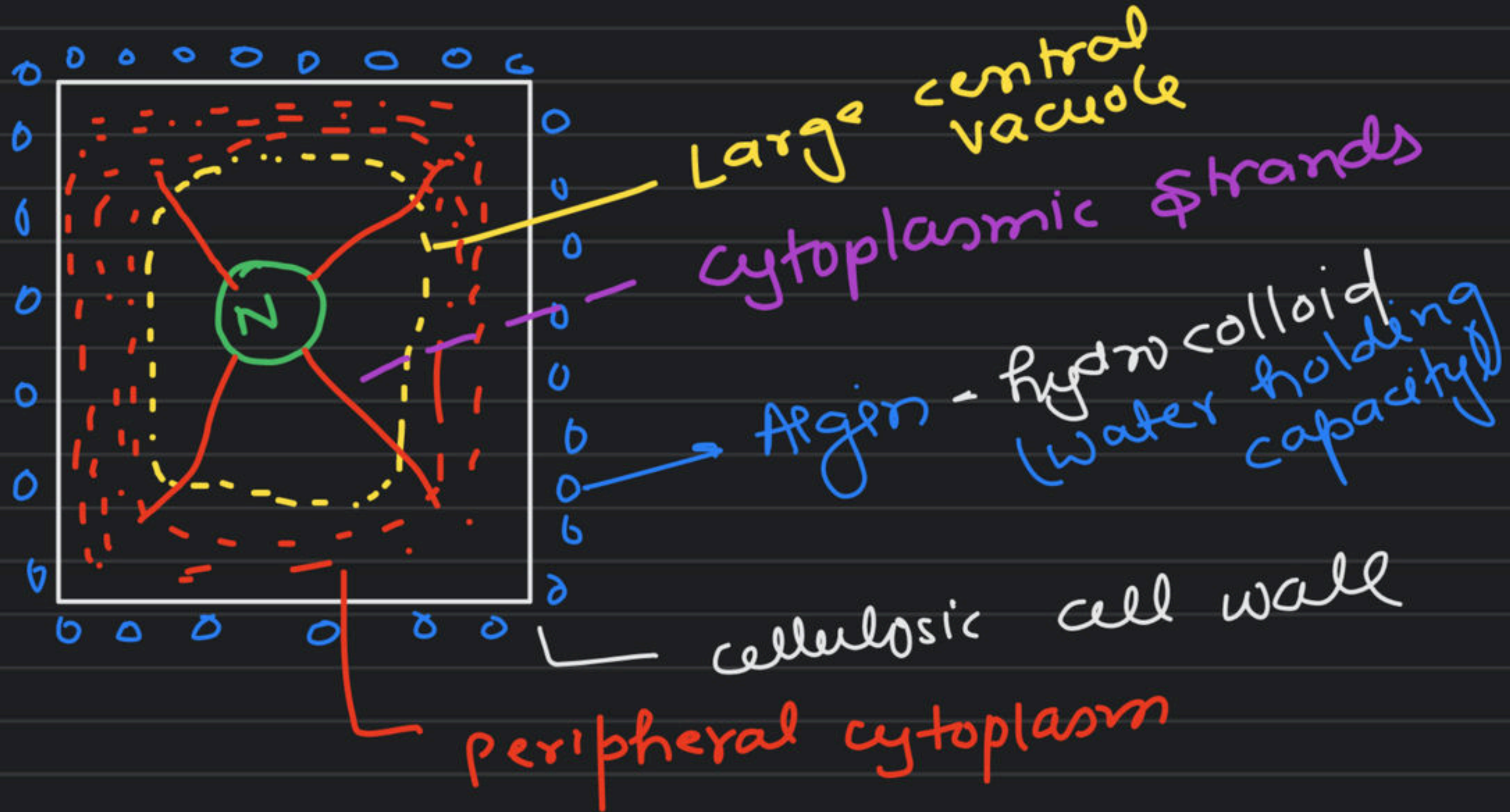


Phaeophyceae - Brown - Algae

1. Mostly - marine

2. Pigment - chlorophyll a, c, carotenoids, xanthophyll (Fucoxanthin)
Brown.

3.



4. food Reserve. → complex carbohydrate - Laminarin & Mannitol
(Alcoholic sugar)

5. Unicellular forms - Absent

size - vary
shape - vary

Massive forms (Marine) - Ectocarpus - simply Branched filamentous

attain a height of 100 meter → Kelp - profusely Branched filamentous

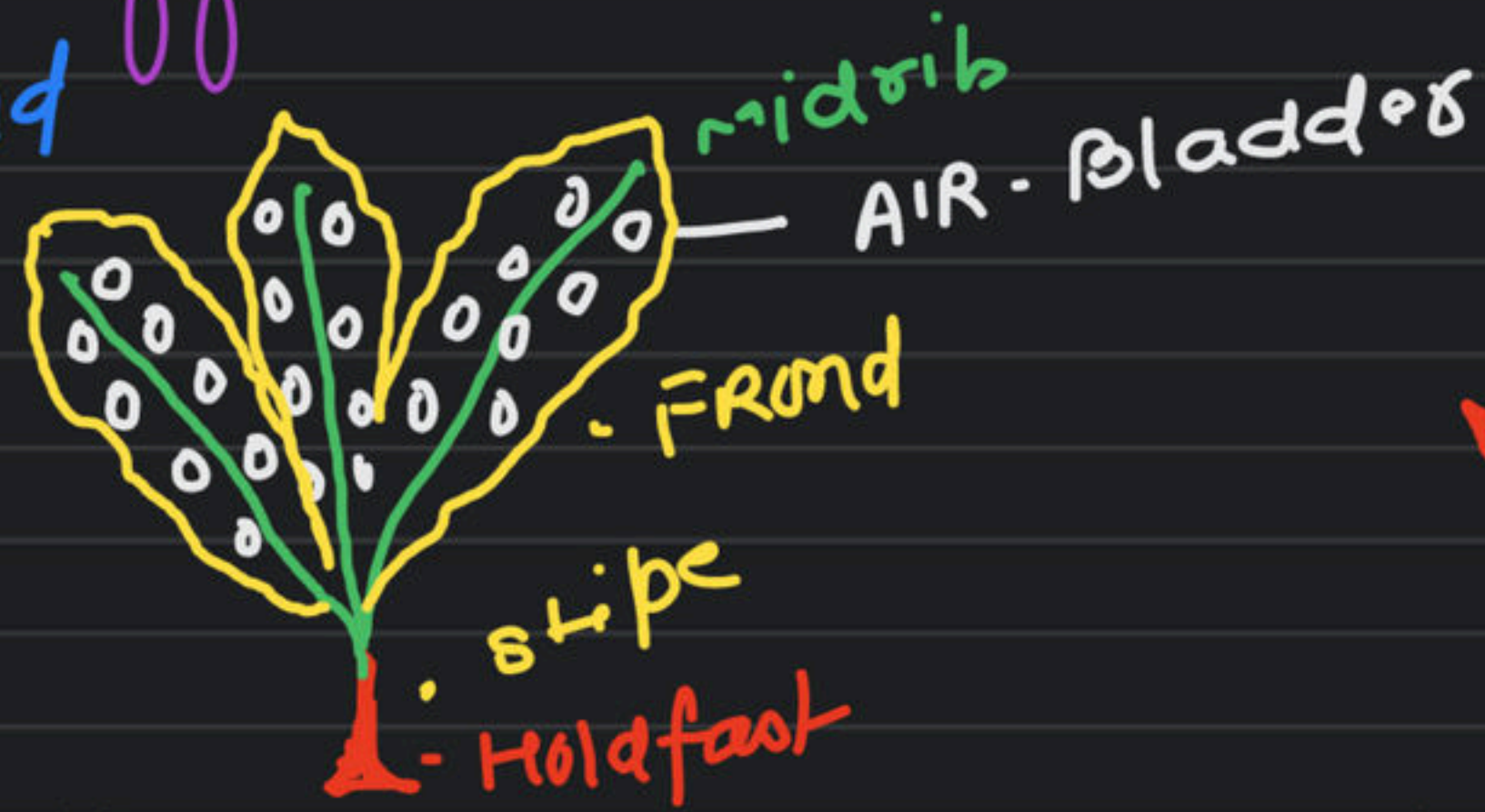
Laminaria
Macrocystes

6. In massive forms in place of phloem. A structure known as **Trumpet hyphae** is present which help in food conductive

7. But there are some members of brown Algae which Body shows differentiation



(i) Laminaria



(ii) Fucus



(iii) - Dictyota

8. AIR-Bladders help in buoyancy

9. Vegetative - fragmentation

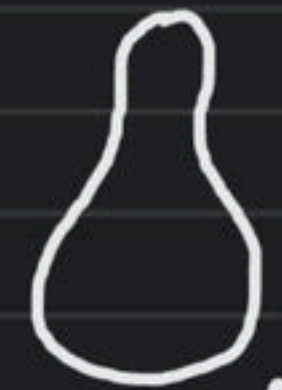
10. Asexual Reproduction - zoospore - 2, unequal

आमि निर्गम

zoospore - 2 shapes

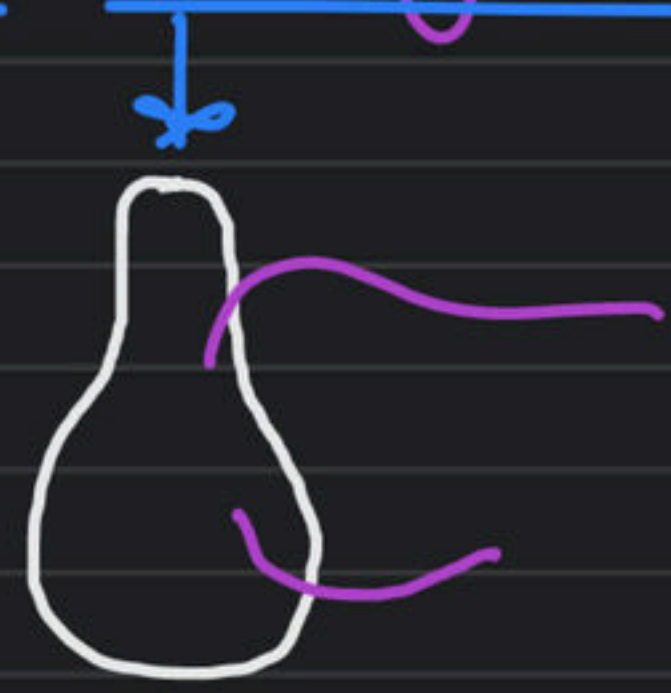


Kidney



pyriform / pear shaped

Mentus - Brown Algae Lateral position



11. Sexual Rep - Iso, Anio, Oogamy

All gametes in
Brown Algae are
Pyriiformed.

- Laterally attached
flagella



Internal fertilization

eg SARGIASSUM

Red-Algae class - Rhodophyceae
(most advanced)

1. Mostly marine
2. pigment - chlorophyll a - d, γ -phycoerythrin, (Red) phycocyanin (Blue)
3. Majorly found in warmer Area
4. Present on surface (well illuminated) & well as deep into the oceans

Exception → BATRACHOSPERMUM

- Blue colour
- only surface
- edible
- fresh water

5. At depth of ocean, for algae only UV Light & Reflected Blue-Green light is Available

- Red Algae pigment \rightarrow α -phycoerythrin has capacity to use UV light for photosynthesis

6. It also shows - Gaidukov phenomenon

It emits the complementary light of the light available in the surrounding

7. Body - complex-organisation, multicellular

8. cellulosic cell wall - surrounded by hydrocolloids
Pectin
- Agar - hydrocolloid - Algae - Gracilaria & Gelidium
carragen
funori
- chondrus
- Gloiopeltus

Agar is solidifying Agent⁺ in Jellies, ice-creams
No Nutritive Value & Artificial medium
Non-Reactive

9. food Reserve — floridean Starch.
(structurally similar to Amylopectin
& Glycogen)