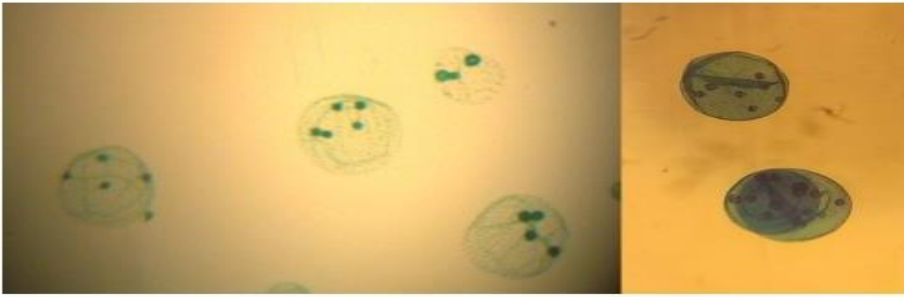


Practical algae question banks

Q1: A/Identify this slide and **classify** it.



B/ How can this genus reproduce **sexually** and **asexually**?

Q2: A/Identify this slide and **classify** it.



B/ How can reproduce sexually? Write about it

Q3:A/ Identify this slide and **classify** it.



B/Write about some features about it

Q4: A/ Classify *Chlamydomonas* sp.

B/ Draw and labeling it.

Practical algae question banks

Q5:A/ Identify and classify these two slides .
B/ What are the differences between them?

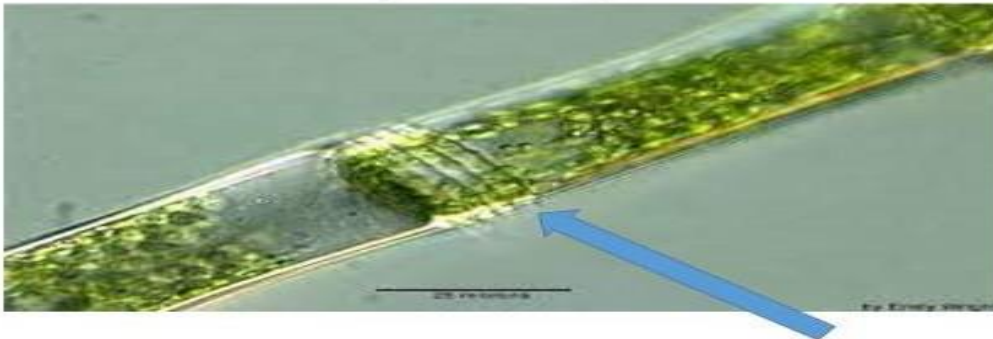


A

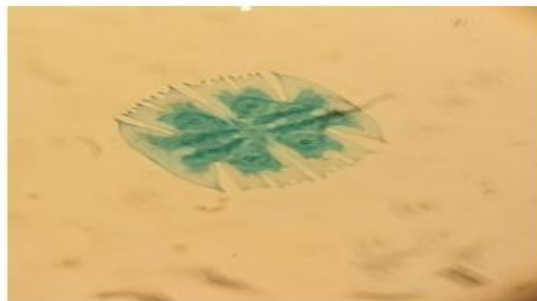


B

Q6:A /1: Identify this slide.
2: To which **order** it is belong?
B/ What is the pointed part? Define it.



Q7:1. Identify this slide.
2. To which **Order** and **Family** it is belong?
B/ Write the common name of it.

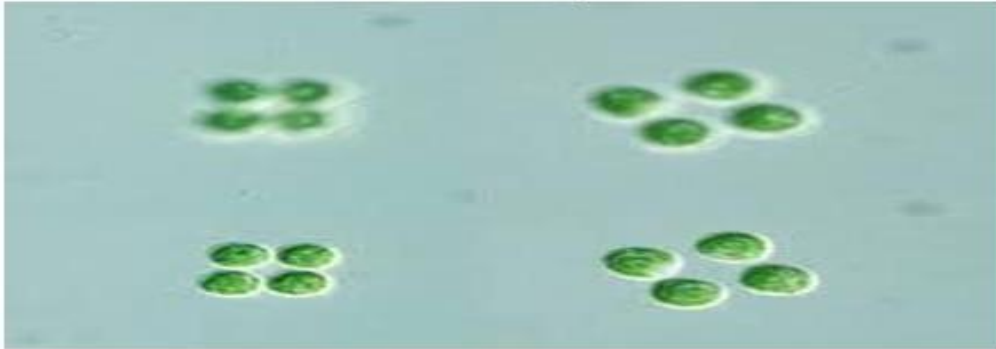


Practical algae question banks

Q8: A/ 1. Identify this slide.

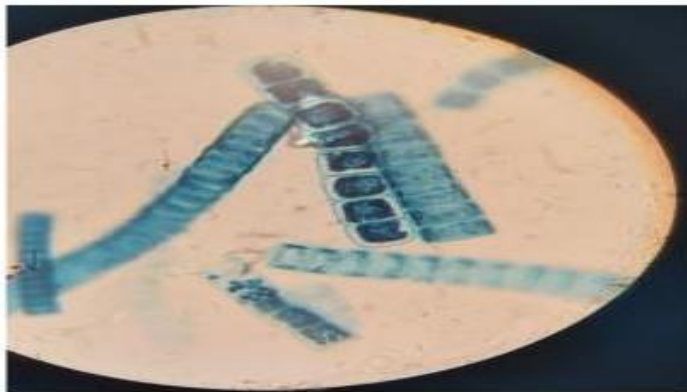
2. To which Order and Family it is belong?

B/ Write about this colony.

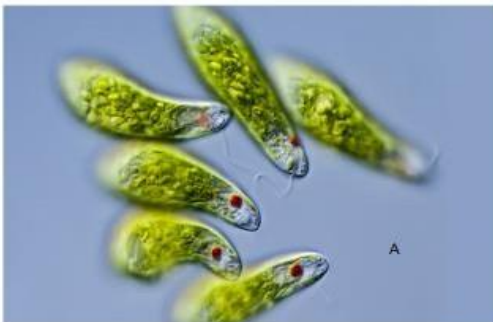


Q9: A/ Identify this slide.

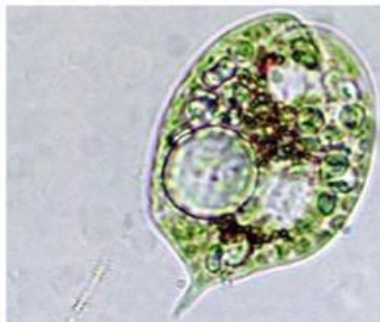
B/ belong to orderand hasshape chloroplast.



Q10: A/Identify and classify these two slides.



A

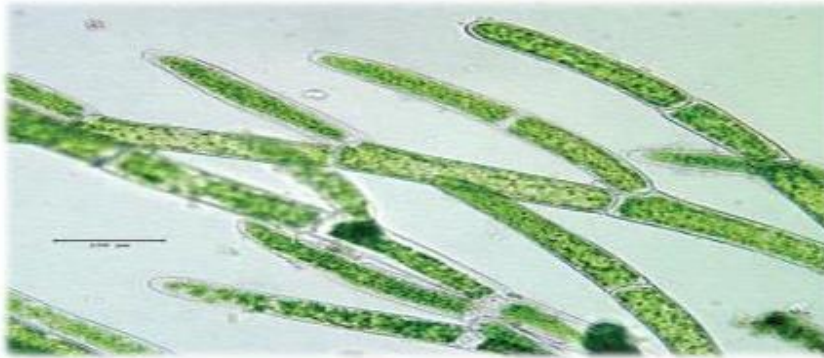


B

B/ Write the differences between them.

Practical algae question banks

Q11: Identify this slide and classify it.



B/Write about some features about it

Q12: Multiple Choice Questions

1. **Which of the following is a primary pigment found in green algae?**

- A) Phycobilin
- B) Chlorophyll a
- C) Carotene
- D) Fucoxanthin

Answer: B) Chlorophyll a

2. **What type of algae is commonly used in the production of agar?**

- A) Green algae
- B) Red algae
- C) Brown algae
- D) Diatoms

Answer: B) Red algae

3. **Harmful algal blooms (HABs) are primarily caused by:**

- A) Low temperatures
- B) High nutrient concentrations
- C) Increased salinity
- D) Lack of sunlight

Answer: B) High nutrient concentrations

4. **Which of the following is NOT a characteristic of algae?**

- A) They are autotrophic.
- B) They lack true roots, stems, and leaves.
- C) They are all unicellular.
- D) They can live in a variety of aquatic environments.

Answer: C) They are all unicellular.

5. **Which group of algae is primarily found in marine environments and is known for its economic importance?**

- A) Cyanobacteria
- B) Dinoflagellates
- C) Brown algae

Practical algae question banks

- D) Red algae
Answer: C) Brown algae
- 6. **Which process do algae primarily use to produce energy?**
 - A) Respiration
 - B) Fermentation
 - C) Photosynthesis
 - D) Chemosynthesis**Answer:** C) Photosynthesis
- 7. **What is the main component of the cell walls in diatoms?**
 - A) Cellulose
 - B) Silica
 - C) Chitin
 - D) Lignin**Answer:** B) Silica
- 8. **Which type of algae is known for producing red tides?**
 - A) Green algae
 - B) Brown algae
 - C) Dinoflagellates
 - D) Cyanobacteria**Answer:** C) Dinoflagellates
- 9. **Which of the following algae is primarily freshwater?**
 - A) Laminaria
 - B) Chlorella
 - C) Fucus
 - D) Sargassum**Answer:** B) Chlorella
- 10. **What is a major benefit of using algae for biofuel production?**
 - A) High cost of production
 - B) Requires large land areas
 - C) Rapid growth rates
 - D) Limited carbon dioxide absorption**Answer:** C) Rapid growth rates

Q13: Fill-in-the-Blank Questions

1. Algae that are primarily found in freshwater environments belong to the group called _____.
2. The process by which algae convert sunlight into energy is known as _____.
3. _____ are the pigments responsible for the red color in red algae.
4. The cell walls of diatoms are made of _____, which provides them with structural strength.
5. Harmful algal blooms are often caused by an excess of _____ in the water.
6. The two main groups of macroalgae are _____ and _____ algae.
7. Algae can be classified based on their pigmentation into three major groups: green, red, and _____ algae.

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8. _____ is a commercially important species of brown algae used to produce alginates.
9. Cyanobacteria, although sometimes called blue-green algae, are actually a type of _____.
10. One of the major benefits of using algae for biofuels is their _____ growth rate.

Q14: What are the general characteristics of Division: Cyanophyta , chlorophyta.

Q15: Draw and label *Calothrix* sp.

Q16: What are the unique features of Oedogonium sp.

Q17: Cyanophyta divided in to four orders, what are they? mention it.

Q18: What are the benefits of *chlorella* sp.

Q19: Define four of the following (Heterocyst, Akinete, daughter colony, coenobium, apical cap, phycoerythrin).

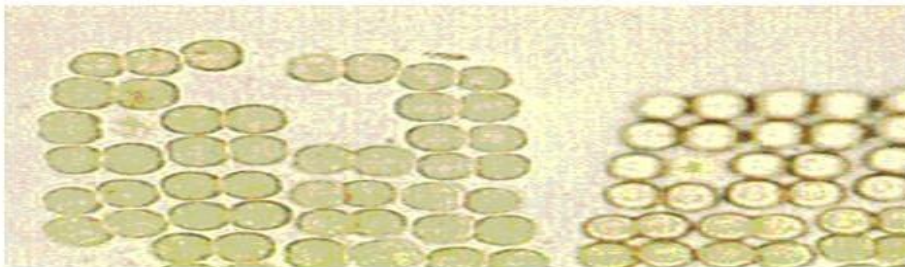
Q20: What is the differences between Lateral conjugation and Scalariform conjugation in *Spirogera* sp. ?

Q21: A/ Identify this slide; and then classify it ?



B/ The colonies of *Microcystis* sp. are spherical but older colonies are typically irregular they often have a blackish or reddish appearance because of

Q22:A/ Identify this slide **and** then describe it, in briefly.

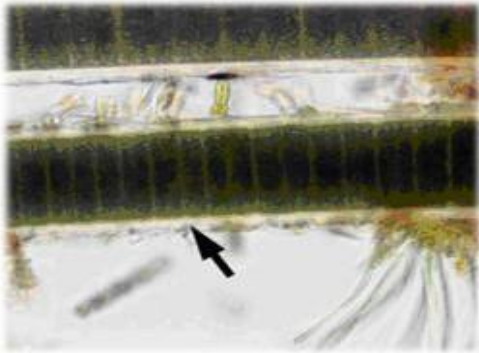


B/Cyanophyta are prokaryotic and the pigments are found in peripheral portion of the protoplast include:.....;.....;.....and

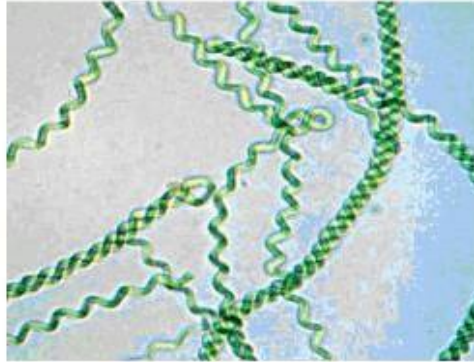
Practical algae question banks

Q23: A/Identify these two slides , to which **class** , **order** ,**family** they belonging to ?

B/ Write the differences between them, in briefly.



A



B

Q24: A/ Identify this slide **and** Write the classification of it.

B/ Draw and label of it.



Q25: A/ Identify this slide and then Classify it.

B/What are these parts which pointed to; defined **one** of them?



Practical algae question banks

Q26: A/ Identify this slide, then classify it.

B/Describe the structure of it ;and what is the part that pointed to it ?



Q27: 1- A/Identify these two slides **A** and **B** .

B/To which **class** and **order** they are belong?

2- Write the differences between them in **one sentence**.



A



B

Q28: 1- Identify this slide; Write the classification of it

2- A/what is the common name of it?

B/ Write the description of it; in brief .



Practical algae question banks

Q29:A/The class chlorophyceae can be divided in to two ordersand

B/Identify this slide and write the common name of it.



Q30: A/ Identify this slide .



B/Compare between *Pandorina* sp. and *Euodoria* sp. According to :-

1. Their shape of colonies.
2. The number and shapes of cells.
3. The arrangement of the cells.