

PHYCOLOGY

TOPIC-CLASSIFICATION OF ALGAE

HAPPY DAS

SACT

DEPT. OF BOATANY

CRITERIA FOR ALGAL CLASSIFICATION

THE PRIMARY CLASSIFICATION OF ALGAE BASED ON FOLLOWING CHARACTERS-

- 1.PIGMENT CONSTITUENT/COMPOSITION OF CELL.
- 2.CHEMICAL NATURE OF STORED FOOD MATERIAL.
- 3.KIND,NUMBER,POINT OF INSERTION & RELATIVE LENGTH OF THE FLAGELLA ON THE MOTILE CELL.
- 4.CHEMICAL COMPOSITION OF THE CELL WALL.
- 5.PRESENCE OR ABSENCE OF DEFINITELY ORGANISED NUCLEUS IN THE CELL OR ANY OTHER SIGNIFICANT DETAIL OF CELL STRUCTURE.

CLASSIFICATION OF R.E.LEE (1989)

- **PUBLISHED IN PHYCOLOGY BY LEE,1989,2ND EDITION.**
- **LEE CLASSIFIED ALGAE INTO 4 EVOLUTIONARY GROUPS,UNDER 4 GROUPS THERE ARE 15DIVISIONS ,UNDER DIVISIONS 17CLASSES WHICH CONTAIN 24 ORDERS.**

GROUP-1 (PROKARYOTIC ALGAE)

- **DIVISION-1-CYANOPHYTA**
- **DIVISION-2-PROCHLOROPHYTA**

**GROUP-2 (EUKARYOTIC ALGAE WITH
CHLOROPLAST SURROUNDED BY 2
MEMBRANES OF
CHLOROPLAST ENVELOPE)**

- **DIVISION-1-GLAUCOPHYTA**
- **DIVISION-2-RHODOPHYTA**
- **DIVISION-3-CHLOROPHYTA**

**GROUP-3 (EUKARYOTIC ALGAE WITH
CHLOROPLAST SURROUNDED BY 1
MEMBRANE
OF CHLOROPLAST ER)**

- **DIVISION-1-EUGLENOPHYTA**
- **DIVISION-2-DINOPHYTA**

**GROUP-4 (EUKARYOTIC ALGAE WITH
CHLOROPLAST SURROUNDED BY 2
MEMBRANES OF
CHLOROPLAST ER)**

- **DIVISON-1CRYPTOPHYTA**
- **DIVISON-2-CRYSOPHYTA**
- **DIVISON-3-PRYMNESIOPHYTA**
- **DIVISON-4-BACILLARIOPHYTA**
- **DIVISON-5-XANTHOPHYTA**
- **DIVISON-6 EUSTIGMATOPHYTA**
- **DIVISON-7-RAPHIDOPHYTA**
- **DIVISON-8-PHAEOPHYTA**

THANK YOU