Note:	
<ol> <li>All the questions are compulsory.</li> <li>Draw neat &amp; suitable diagrams wherever necess</li> <li>Figures to the right indicate full marks.</li> </ol>	ary.
Q 1. A. Choose the correct option & rewrite the state  1. Sargassum belongs to the Class  a. Phaeophyceae b.Chlorophyceae c.Bacillar  2. Nostoc colonies are characteristically found in the thol	riophyceae d.Rhodophyceae
3. Protonema is the stage of haploid generation in	eros d. Pellia Funaria
4. Rank ending '-ales' denotes	hytic d. Saprophytic
5. Ray and disc floret are present in the family (sub family)	d. series
6. Stamens arranged in two bundles are botanically termed	d. Caesalpiniaceae
7. In Thin Layer Chromatography is most widely	elphous d. monobundlous y used adsorbent.
powder  8. If the magnification of the eyepiece (lens) is 10x and that 100x, what will be the magnification?	a powder d. Calcium
a. 150x b. 500x c. 1000x  9 is used to put pressure on plants for drying a. Pressure Box b. Plant Canister c. Plant Pro  10.AGE stands for	d. 110x while making a herbaria. ess d. Press tool
a. Agarose Gel b. Agar Gel c. Alumina Electrophoresis Electrophoresis Electrophoresis	d. Acrylamide Gel horesis Electrophoresis.
Q 1. B Answer the following in one sentence Crypyoblasts Chemotaxis	(10 Marks)
Give the <u>principle I</u> of International code of Nomenclatu.  Any 2 stains used in Electrophoresis	re for algae fungi and plants

## Q

- a.
- b
- C.
- Formula for Rf

# Q 2. Answer the following questions (Any two)

(20 Marks)

- Give systematic position and describe structure of thallus in Sargassum.
- Give a general account of the class Musci.
- Describe the internal morphology of sporophyte in Anthoceros.
- Describe the reproductive structures of Funaria.

### Q 3. Answer the following questions (Any two)

(20 Marks)

- a. Explain ecology in relation to taxonomy.
- b. Explain principle II of the international code of Algae, Fungi and Plants.
- c. Give the classification with reason, distinguishing characters and any two plants of economic importance of the family Amaranthaceae.
- d. Give the classification with reason, distinguishing characters and any two plants of economic importance of the family Fabaceae.

### Q 4. Answer the following questions (Any two)

(20 Marks)

- Define Chromatography. Add a note on types of paper chromatography and its applications.
- b. Compare and contrast between Horizontal & vertical electrophoresis.
- c. Explain in detail the Dry method of plant preservation. What is the significance of plant preservation?
- d. Enlist & Elaborate on the parts of a compound microscope.

#### Q 5. Short Notes (Any four)

(20 Marks)

- a. Structure and development of oogonia in Sargassum.
- b. Vegetative reproduction in Funaria.
- c. Give the economic importance of Arecaceae.
- d. Give the classification of the family Caesalpiniaceae.
- e. Staining methods used in electrophoresis
- f. Wet method of plant preservation

-x-x-x-x-x-x-