Note:

1. All the questions are compulsory.

- 2. Draw neat & suitable diagrams wherever necessary.
- 3. Figures to the right indicate full marks.

Q 1. A. Choose the con	rrect option & rewrite	the statements:	(10 Marks)
1shaped	l chloroplast observed i	n Spirogyra.	
a.Girdle	b.Star	c.Spiral	d.Cup
2. Nostoc shows	type of relationsh	ip with other plants.	
	b.Ammensalism		d.Parasitism
3. When both the game	tes are dissimilar in mo	rphological and physic	ological condition,
then it is called as	reproduction.		
a.lsogamous	b.Anisogamous	c.Oogamous	d.Asexual
4. Asexual reproduction	n in Rhizopus is by the	formation of	
a. Chlamydospores	b. Aplanospores	c. Sporangiospores	d. All of the above
5. is commo	inly known as black bre	ead mould	Indialization of the last
a. Rhizobium sp			d. Rhizopus
	o. misopus oi yawe	nedosus	stolonifer
6. Absorptive heterotro	phic mode of nutrition		
	b. Bryophytes		d. Algae
7. Aspergillus has	hyphae.		
a.aseptate and	b.aseptate and	c.septate and	d.septate and
uninucleate	multinucleate	uninucleate	multinucleate
8. are also	known as amphibians	of the plant kingdom	
a. Algae	h Fungi	c Bryonhytes	d Pteridonhytes
9. is flash		c. Dijopiijtes	a. Tromaphytes
	b. Scales	c Rhizoids	d. Archegonium
10. There are			
a. One	b. Two	c. Three	d. Four

Q 1. B Answer the following in one sentence

(10 Marks)

- a. Explain isogamous type of reproduction.
- b. Nostoc belongs to which family?
- c. Which class of fungi shows zygospore formation?
- d. Which fungi is called a Sac-fungi?
- e. Types of rhizoids in Riccia.

Q 2. Answer the following questions (ANY TWO)

(20 Marks)

- a. Enlist the characteristics of Chlorophyta.
- b. Write down the Systematic position of *Nostoc* with reasons and add a note on its Cell structure.
- c. Describe the Scalariform conjugation of Spirogyra
- d. Enlist the Ecological importance of Algae.

Q 3. Answer the following questions (ANY TWO)

(20 Marks)

- a. Explain the general Characteristics of Phycomycetes.
- b. Describe the structure of Aspergillus with a suitable diagram.
- c. Write Economic importance of Fungi.
- d. Explain the life cycle of Rhizopus.

Q 4. Answer the following questions (ANY TWO)

(20 Marks)

- a. Explain with the help of a diagram, how two generations alternate with each other in Riccia.
- b. External structure of Riccia.
- c. V.S. of thallus in Riccia.
- d. Distinguishing characters of class Hepaticae

Q 5. Short Notes (ANY FOUR)

(20 Marks)

- a. Asexual reproduction in Nostoc
- b. Types of reproduction in Chlorophyta
- c. Stolons
- d. Ascocarp
- e. How does Riccia reproduce vegetatively?
- f. Archegonium in Riccia.

-X-X-X-X-X-X-