RANIGANJ GIRLS' COLLEGE

MODEL QUESTIONS-I

BOTANY [HONOURS]

SEMESTER-I

PAPER- CC-I (Phycology and Lichenology) Course code: BSCHBOTC101

F.M: 40 Time: 2 Hours

The figure in the right-hand margin indicates marks.

Candidates are required to give their answer in their own words as far as practicable.

1.	Answer any five questions of the following:	1×5=5
	(a) What is coenobium?	
	(b) What is phycobiont?	
	(c) What is mycobiont?	
	(d) Give an example of Crustose lichen.	
	(e) Given an example of fruticose lichen.	
	(f) Name one pollution indicator lichen.	
	(g) What is phycobilisome?	
	(h) What is the ploidy level of tetrasporophyte in <i>Polysiphonia</i> ?	
	(i) Define ligniculous lichen.	
	(j) What is kelp?	
2.	Answer any five questions of the following:	2×5=10
	(a) Name the male and female sex organ of <i>Chara</i> .	
	(b) Name two algae used as biofertilizer.	
	(c) Define alternation of generation.	
	(d) Define unilocular and plurilocular sporangia.	
	(e) Define triphasic life cycle.	
	(f) Define heterocyst. Mention its function.	
	(g) Name one ascolichen and one basidiolichen.	
	(h) Define complementary chromatic adaptation.	
	<i>(i)</i> Define dwarf male filament/nannandrium.	
	(j) Name two ecological importances of Lichen.	
3.	Answer any three questions of the following:	5×3=15
	(a) With suitable diagram describe the ultrastructure of a heterocyst cell.	Define GOGAT
	pathway.	
	(b) Write down the economic importance of lichen.	
	(c) Briefly discus the process of sexual reproduction found in <i>Ectocarpus</i> .	
	(d) Give an account of sex organs in <i>Chara</i> .	
	(e) Classify lichens based on their habitat citing one example for each typ	e.
4.	Answer any one questions of the following:	10×1=10

- (a) With suitable diagram describe the process of sexual reproduction found in *Vaucheria*. Comments on its systematic position.
- (b) With suitable diagram describe the auxospore formation in pinnate diatoms.
- (c) Give a detailed account of the cell structure in Cyanophyceae with illustrations.

4+6=10