

RAJARATA UNIVERSITY OF SRI LANKA **FACULTY OF APPLIED SCIENCES**

B.Sc. (General) Degree in Applied Sciences First Year – Semester I Examination –May/June 2016

BIO 1201 – PLANT DIVERSITY I (REPEAT)

		Time:	Two (02) hours
Answer any four (04) questions only.			
1.	a)	Describe the three different types of lifecycles that occur among mem Division Phaeophyta.	bers in (60 marks)
	b)	State five economic / ecological importance of algae, giving example	s. (40 marks)
2.	a)	Illustrate the vegetative diversity found in families Scytonemataceae a Stigonemataceae, using appropriate examples.	and (80 marks)
	b)	"Cyanobacteria help in increasing soil fertility." Justify.	(20 marks)
3.	a)	What are the major categories of cyanotoxins produced by Cyanobacteria? Give one example per each category you mentioned. (16 marks)	
	b)	Name any health problem caused by cyanobacteria in man.	(06 marks)
	c)	Compare the cell wall material, photosynthetic pigments, stored food of Chlorophyta, Phaeophyta, Rhodophyta and Bacillariophyta.	and colour (48 marks)
	d)	Illustrate the habit of any three macroscopic, green and/ or red algae, a complete diagrams only.	(30 marks)
4.	a)	Explain why Phycomycota is considered as Fungi-like oraganisms.	(70 Marks)
	b)	Write a short essay on the importance of fungi to man.	(30 marks)
5.	a)	Slime molds are considered as fungi-like organisms. Compare and contrast the eatures of slime molds with typical characteristics of true fungi. (30 marks)	
	b)	Describe the mode of nutrition of fungi. Mention the ecological functi mode of nutrition.	

c) Give a brief account on different types of septa found in true fungi.

(40 marks)