STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2011 – 12 & thereafter)

SUBJECT CODE: 11BT/MC/AF14

B. Sc. DEGREE EXAMINATION, NOVEMBER 2013 BRANCH V (a) - PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

		FIRST SEMES	STER
COURSE	: M A	AJOR – CORE	
PAPER	: AL	GAE, FUNGI AND LIC	CHENS
TIME	: 3 H	IOURS	MAX.MARKS:100
		SECTION A	(36 marks)
ANSWER A	ALL QUEST	'IONS:	`
		RECT ANSWER:	(6 x 1=6 marks)
1. Horn	nospores are	produced by	
		•	ophycophyta d) Chlorophycophyta
		owing alga have Plakea sta	
a_{i}) Nostoc b)	Chara c) Volvox d) Polysij	ohonia
3. The r	nale sex orga	n is called globule in	
$a_{\underline{i}}$) Caulerpa l	b) Sargassum c) Volvox d)	Chara
		causes white rust disease	
			Basidiomycetes d) Deuteromycetes
		owing fungus belongs to th	
		Cercospora c) Puccinia d,	
		uction in Lichen takes pla	
a)) Isidia b) C	onidia c) Pycniospore d) A	ascospore
II. STATE	WHETHER	R THE FOLLOWING A	RE TRUE OR FALSE: (6 x 1=6 marks)
7. Stipu	lode is a sma	all appendage present at the	e base of secondary laterals of <i>Chara</i>
		ecial type of cell which oc	
	•	• 1	dder to maintain buoyancy
			shaped structure which produces conidia
	d Phialid.		
11. The f	ruiting body	of Peziza is called cleisto	thecium
12. <i>Cetr</i>	aria islandic	a is commonly known as i	sland moss
III. MATC	Н ТНЕ ГОІ	LOWING:	$(6 \times 1 = 6 \text{ marks})$
13 Cvan	ochloronta	- a) Usnea	
	domycetes	- b) Fucoxanth	in
15. Char		- c) Conidia	
16. Cerce		- d) Prokaryot	ic organisms
17. Liche	•	- e) Basidium	
	ophycophyta	· ·	tars

V. ANSWER ANY SIX WITHIN 50 WORDS:

 $(6 \times 3 = 18 \text{ marks})$

- 19. Fragmentation
- 20. Pigmentation of Red algae
- 21. Cystocarp
- 22. Budding
- 23. Pileus
- 24. Tikka disease
- 25. Syngamy
- 26. Foliose lichen
- 27. Evection in Cladophora

SECTION B

ANSWER ANY FOUR QUESTIONS IN NOT MORE THAN 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY: $(4 \times 6 = 24 \text{ marks})$

- 28. List out the features of Charophyta
- 29. Describe the structure of *Volvox* colony
- 30. Describe the morphology of Caulerpa
- 31. Enumerate the salient features of Plasmodiophoromycetes
- 32. Write about asexual reproduction in Aspergillus
- 33. Give the economic importance of Lichens

SECTION C

ANSWER ANY TWO QUESTIONS IN NOT MORE THAN 1000 W0RDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY. (2 x 20 = 40 marks)

- 34. Describe Bold and Wynne's classification of algae.
- 35. Explain the reproduction and life cycle of *Polysiphonia*.
- 36. Describe the life cycle of *Puccinia*.
- 37. Describe the structure and reproduction of *Usnea*.
