STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2015– 2016)

SUBJECT CODE: 15BT/MC/AF14

B. Sc. DEGREE EXAMINATION, NOVEMBER 2015 BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY FIRST SEMESTER . MA IOD CORE

		R – CORE E, FUNGI AND LICHE RS	NS MAX.MAR	KS:100	
		SECTION – A		(36 marks)	
	R ALL QUESTION SE THE CORREC		(5 x 1	=5 marks)	
1.	The common name	for Bacillariophyceae is			
	a) Stone worts b) Star worts c) Horn worts		Iorn worts	d) Diatoms	
2.	The plastids which have chlorophyll b is called as				
	a) Chloroplast	b) Chromoplast	c) Phaeoplast	d) Rhodoplast	
3.	Cellulose is present	in the cell wall of			
	a) Oomycetes	b) Ascomycetes	c) Basidiomycetes	d) Deuteromycetes	
4.	is called as Heteroecious fungi				
	a) <i>Peziza</i>	b) Puccinia	c) Aspergillus	d) Yeast	
5.	Lichen with apothecuim are found in				
	a) Crustose	b) Foliose	c) fruitcose	d) Moss	
II. FILL IN THE BLANKS			(5 x 1=5 marks)		
		ne major pigment in Phaeo			
7.	An example of prok	caryotic algae is	·		
		is absent in	_Fungi.		
	is called as coprophilus fungi. D partner is called as phycobiont in a Lichen.				
10.	pai	ther is called as phycoolo	ont in a lichen.		
III. STA	TE WHETHER TH	IE FOLLOWING ARE T	TRUE OR FALSE: (4 x 1=4 marks)	
11.	Motile structures as	re totally absent in Rhodo	phyceae.		
12.	The female sex orga	n in chara is called as Nuc	ule.		
13.	Number of spores in	n ascus is four.			

14. Soredia is the asexual reproductive body in lichen.

IV. MATCH THE FOLLOWING:

 $(4 \times 1 = 4 \text{ marks})$

15. Phycoerythrin - lichen.

16. Fucosan vesicle - asexual reproduction.
17. Conidia - Rhodophyceae
18. Symbiosis - Phaeophyceae

V. ANSWER ANY SIX WITHIN 50 WORDS EACH:

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

- 19. Eye spot of algae.
- 20. Whiplash flagella.
- 21. Heterothallism.
- 22. Coenocytic mycelium.
- 23. Akinetes.
- 24. Isomorphic alternation of generation.
- 25. Basidiocarp.
- 26. Fruticose lichen.
- 27. Evection.

SECTION - B

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

- 28. Explain oogamous type of sexual reproduction in any one algae.
- 29. Explain the asexual reproduction in *Nostoc*.
- 30. Explain briefly the important characters of any four major classes of fungi.
- 31. Explain briefly asexual reproduction in *Albugo*.
- 32. Write briefly on economic importance of Lichens.
- 33. Explain briefly the life cycle of synchytrium.

SECTION - C

ANSWER ANY TWO QUESTIONS IN NOT MORE THAN 1000 W0RDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY. $(2 \times 20 = 40 \text{ marks})$

- 34. Explain the classification of algae.
- 35. Describe the life cycle of *Cladophora*.
- 36. Explain the life cyle of *Puccinia*.
- 37. Draw and describe the structure of lichen thallus and reproduction.
