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

SUBJECT CODE: 15BT/MC/AF14

B. Sc. DEGREE EXAMINATION, NOVEMBER 2016 BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY FIRST SEMESTER

MAJOR - CORE

14. Monokaryotic phase of *Puccinia* occurs in wheat.

COURSE

PAPE TIME		LGAE, FUNGI AND L HOURS		AX.MARKS:100	
		SECTION	$-\mathbf{A}$	(36 marks)	
ANSWER ALL QUESTIONS: I. CHOOSE THE CORRECT ANSWER: (5 x 1=5 marks)					
1.	The reserve food	l material in Chlorophycea	ne is		
	a) Chitin	b) True Starch	c) pectin	d) Laminarin	
2.	. Sexual reproduction is absent in				
	a) Cyanophyta	b) Chlorophyta	c) Phaeophyta	d) Rhodophyta	
3.	3. Cell wall in fungi is made up of				
	a) Pectin	b) Chitin	c) Protein	d) Glycine	
4.	. Vegetative stage in Myxomycetes is called as				
	a) Hypha	b) Mycelium	c) Plasmodium	d) Pseudopodium	
5.	are the lichens in which the algal cells are scattered uniformly among the				
	enveloping hyphae.				
	a) crustose	b) heteromerous	c) Foliose	d) Homoiomerous	
II. FILL IN THE BLANKS (5 x 1=5 marks					
6.	In <i>Polysiphonia</i> short branches of limited growth are also called				
7.	Xanthophyll is the principal pigment in the member of the				
8.	is a heteroecious fungus.				
9.	9. In <i>Albugo</i> the structure which absorbs food material from host is called				
10. The ascus fruit of Pyrenocarpae is type.					
III. STATE WHETHER THE FOLLOWING ARE TRUE OR FALSE: (4 x 1=4 marks)					
11. Gametes in <i>Cladophora</i> are pear shaped and quadriflagellate.					
12	12. Sexual reproduction in Caulerpa is isogamous.				
13	13. Pycnidiospores in lichens are asexual spores.				

IV. MATCH THE FOLLOWING:

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

15. Globule a. Puccinia
16. Conceptacles b. Lichens
17. Isidia c. Chara
18. Teleutospores d. Sargassum

V. ANSWER ANY SIX WITHIN 50 WORDS EACH:

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

- 19. Coenobium in Volvox
- 20. Amorphous bulbils in Chara
- 21. Kinds of flagella in algae
- 22. Akinetes
- 23. Sclerotia
- 24. Uredospores
- 25. White rust
- 26. Soredia
- 27. Crustose type

SECTION - B

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

- 28. Describe the structure of *Nostoc* trichome with suitable diagram.
- 29. Write notes on vegetative reproduction in Chara.
- 30. Briefly describe the asexual reproduction of Albugo.
- 31. Describe the apothecium of *Peziza* with a suitable diagram.
- 32. Write about the economic importance of Lichens.
- 33. Describe the methods of reproduction in Lichens.

SECTION - C

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

- 34. Write an account of the life history of *Sargassum* with suitable diagram.
- 35. Describe the reproduction of *Polysiphonia*.
- 36. Write an essay on classification of fungi by Alexopoulos and Mims, 1979.
- 37. Give a detailed account of life cycle of *Puccinia*.
