STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2008-09 & thereafter)

SUBJECT CODE: BT/MC/AF14

B. Sc. DEGREE EXAMINATION, NOVEMBER 2008 BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY FIRST SEMESTER

COURSE PAPER TIME ANSWER	: MAJOR - CORE : ALGAE, FUNGI AND LICHENS : 3 HOURS SECTION - A	MAX.MARKS:100 (6 X 1 = 6)
	LL IN THE BLANKS:	(• • • • • • • • • • • • • • • • • • •
1. 2.	Cyanobacteria are commonly known as The colony of <i>Volvox</i> is called	·
3.	Cladophora shows a type of branching called	
4.	is commonly called as bracket fungus	
5.	The female sex organ of <i>Chara</i> is called	
6.	Usnea is an example for a lichen.	
II CH	IOOSE THE RIGHT ANSWER	(6 X 1 = 6)
7.	Plakea stage is seen in	
	,	Volvox
8.	The reserve food product of the red algae is	T1 '1 4 1
9.	a) Laminarin b) Mannitol c) Tikka disease of groundnut is caused by	Floridean starch
<i>)</i> .		Aspergillus
10.	Chara is commonly referred to as	
	, 1	Hornwort
11.	Albugo causes a disease called	
12.	a) White rust b) Red rust c) The cell wall of brown algae is a source of	Club root
12.	-	Agar-agar
III. ST	ATE WHETHER TRUE OR FALSE:	$(6 \times 1 = 6)$
13.	Synchytrium is a holocarpic fungus.	
14.	Imperfect Fungi are placed under Myxomycetes.	
15.	Heterocysts are present in <i>Nostoc</i>	
16.	Plasmodiophora causes club root of cabbage.	
17.	Clamp connections in fungi help in dikaryotisation.	
18.	The fertilized zygote of <i>Chara</i> is called zoospore.	

/2/ BT/MC/AF14

IV. ANSWER ANY SIX QUESTIONS. EACH ANSWER NOT TO EXCEED 50 WORDS: (6X3=18)

- 19. Hormogone
- 20. Phycobilins
- 21. Amylum stars
- 22. Haustoria
- 23. Apothecium
- 24. Assimilator
- 25. Soredia
- 26. Sterigma
- 27. Dolipore septum.

SECTION - B

ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 200 WORDS: (4X6=24)

- 28. Draw and describe the apothecium of *Peziza*.
- 29. Describe the male sex organ of *Chara*.
- 30. Write notes on asexual reproduction in *Albugo*.
- 31. Describe the internal structure of Lichen thallus.
- 32. Describe the structure of the basidiocarp of *Polyporus*.
- 33. Describe process of reproduction in *Caulerpa*.

SECTION - C

ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1000 WORDS: (2X20=40)

- 34. Describe the structure and reproduction of *Sargassum*.
- 35. Give an account of the different types of spores produced by *Puccinia* by describing its life cycle.
- 36. Describe in detail the characteristics of the major fungal classes.
- 37. Write an essay on the life cycle of *Polysiphonia*.