# 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 2009 BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY FIRST SEMESTER

PAP	RSE ER E	: ALG				MAX.MAR	KS:100
ANS	WER AI	LL QUESTIO		CTION	- A	(6	X 1 = 6)
I	FILL 1	IN THE BLA	NKS:				
2. 3. 4. 5. 6.	The frui	le is the leaf lile is the is the is the fing body in Pingle is called	fungus belongs leziza isd d as white rust	seen in_nsible for the control of th	or brown colo	•	
II	СНОС	OSE THE RIC	GHT ANSWE	R		(6	X 1 = 6)
7.	Trabecu	lae is the struc	eture seen in				
	a)	Volvox	b) Chara	c) Ca	ulerpa		
8.	Air blad	der is the struc	cture produced	to main	ntain floating	nature of	
	<i>a</i> )	Sargassum	b) Caulerpa	c) Cl	nara		
9.	Carposp	ore is a diploi	d spore produc	ed by			
	<i>a</i> )	Cladophora	b) Polysipho	nia	c) Sargassi	ım	
10.	. Tikka di	sease is cause	d by				
	<i>a</i> )	Polyporus	b) Puccinia	c) Ce	rcospora		
11.	. The fung	gus having am	oeboid movem	ent is _			
	<i>a</i> )	Albugo	b) Plasmodio	phora	c) Cercospo	ora	
12.	. Which o	of the following	g has the symb	ionts in	its thallus?		
	<i>a</i> )	Caulerpa	b) Sargassun	a c) Us	snea		
III.	STAT	E WHETHEI	R TRUE OR F	ALSE	:	(6 X	(1=6)
14. 15. 16. 17.	. Albugo i . Aspergii . Biliprote . Volvox i	is a rust fungual state in a rust fungual state in a re present s a coenobium	water living fus affecting group omycete reprodution blue green a consisting of	undnut ducing l algae 500 -50			

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

- 19. Akinetes
- 20. Crown cells
- 21. Cystocarp
- 22. Budding
- 23. Conidiophore
- 24. Ascus
- 25. Uredospore
- 26. Hormogonia
- 27. Crustose lichen

#### SECTION - B

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

- 28. Give the outline of Bold and Wynne's classification of algae
- 29. Describe the structure of *Volvox* colony
- 30. Explain the structure of gametophyte of Polysiphonia
- 31. Differentiate ascomycetes from basidiomycetes
- 32. Illustrate the structure of *Synchytrium*
- 33. Explain reproduction in *Cercospora*

#### **SECTION - C**

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

- 34. Write an account on pigment system and reserve food materials in various algal divisions.
- 35. Explain life cycle of *Cladophora* with diagrams.
- 36. Illustrate the life cycle of *Puccinia* in two different host plants
- 37. Describe the structure and reproduction in *Aspergillus*