STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted in during the academic year 2015 – 16)

SUBJECT CODE: 15BT/AC/GB14

B. Sc. DEGREE EXAMINATION, NOVEMBER 2015 BRANCH VI (a) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY FIRST SEMESTER

COURSE PAPER	:		IY-I	
TIME	:	3 HOURS		MAX.MARKS:100
		SECT	ION – A	(18 x 1 = 18 marks)
Choose the				$(1 \times 5 = 5)$
1. Synandro				
				petals c. stamens fused
	-	ium d. anthers and filan	ients fused	
		dicots arise from	d anidarmis	
		ndodermis c. cortex of rtilized part of	J. epideriiis	
-		nostoc c. chara d. sa	aroassum	
4. Wood ro			ıı gussum	
		n b. polyporous c. ri	hizopus dasperg	illus
5. Cercospo			uzopus a. uspers	
-		b. red rot of sugarcane	c. tikka disease d.r	nucormycosis
		C		Ž
Fill in the k	olanks:			$(1 \times 5 = 5)$
6. The inflo	orescen	e in Arecaceae is		
7		traverses the xylem	, phloem through ca	mbium in secondary dicot
root.				
		forms phellem towards	-	derm towards inside.
		tion in <i>chara</i> is		11.10
		of compact globular mass	s of hyphae during th	ne conidial formation in
cercospora	is call	ed		
State whetl	har tru	or folso		$(1 \times 4 = 4)$
		berries is developed from	m the fusion of flow	` ,
		f endodermis remains of		
_		<i>argassum</i> is diplontic.	. L	
•		he elongated part of anti	heridium in <i>aspergil</i>	lus .
Match the		_	1	$(1 \times 4 = 4)$
15. Verticil		a. Colleterotric	num	
16. Zygospo		b. Nostoc		
17. Conidia18. Endospe		c. <i>Rhizopus</i> d. <i>Ocimum</i>		
TO, LHUUSDO	U1C	u. Ocimum		

(V) ANSWER ANY SIX QUESTIONS IN 50 WORDS EACH

 $(6 \times 3 = 18)$

- 19. Give a brief note on Genera Plantarum
- 20. Describe cyathium inflorescence
- 21. Write on fascicular and interfascicular cambium.
- 22. What are the characteristic features of radial vascular bundle
- 23. What are conceptacles?
- 24. Describe a trichome
- 25. Mention the importance of clamp connections
- 26. What is cleistothecium
- 27. Describe acervulus

SECTION - B

ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 200 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY. $(4 \times 6 = 24)$

- 28. Write the floral characters of Apocyanaceae.
- 29. Describe the merits and demerits of Bentham and Hookers system of classification
- 30. Tabulate the differences between a dicot stem and a root
- 31. Describe the habit of sargassum
- 32. How does aspergillus reproduces asexually?
- 33. Give a brief account on the causal agent, symptoms and control measures of citrus canker

SECTION - C

ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1000 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY. $(2 \times 20 = 40)$

- 34.Enumerate the vegetative, floral characters and economic importance of Lamiaceae
- 35. Explain secondary growth in dicot stem
- 36. Describe the morphology and vegetative reproduction in Chara
- 37. Explain the life cycle of *Rhizopus*