STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted from the academic year 2011 – 12 & thereafter)

SUBJECT CODE: 11BT/AC/GB23

B. Sc. DEGREE EXAMINATION, APRIL 2014 BRANCH VI(A) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY SECOND SEMESTER

COURSE PAPER TIME	:	ALLIED – (GENERAL 3 HOURS	CORE BOTANY – II	MAX. MARKS:	100
			SECTION – A		
ANSWER A	_				
I. CHO	OSE TH	E CORREC	T ANSWER:	(5 x 1	. = 5)
1.The end	product	of glycolytic	pathway is		
	uvic acid		b) Phospho pyruvic acid		
c) Glu			d) Glyceric acid.		
2. Cycas	is				
a) Dic	ecious		b) Monoecious		
c) Bise	exual		d) None of them.		
3. Japanes	se style o	f flower arrar	ngement is		
a) Bor	nsai		b) Ikebana		
c) Mo	ribana		d) Nageire.		
4. The me	dium use	ed for tissue c	culture is		
,	medium		b) ER Medium		
c) B 5	Medium	l	d) PDA.		
_	•	in <i>Funaria</i> is			
a) Spore			b) Gametophyte		
c) Proto	nema		d) Thallus.		
II. FILL	IN THE	BLANKS:		(5 x 1	. = 5)
6. Hill rea	action is	also known a	s		
7. Auxan	ometer is	s used to mea	sure		
8. When	antheridi	a and archego	onia are intermingled it is called a	.s	·
9. A mas	ss of und	itterentiated o	cells is called	·	
10. The id	ongevity (or the fresh fi	owers is called	·	
III. STATE WHETHER TRUE OR FALSE:				(4 x 1	. = 4)
			e released to the amount of Oxyg	gen absorbed in	
		Lespiratory Question Respiratory Question	uotient. as Club Moss.		
14. Auiuil	ının 15 all	oo rererreu lu	as Ciuu ivioss.		

- 13. Best time to harvest cut flowers is at afternoon.
- 14. Oyster mushroom is *Pleurotus*.

IV. MATCH THE FOLLOWING

 $(4 \times 1 = 4)$

15. Dwarfing - Red Drop effect

16. Diploxylic - Pruning. 17. Explant - *Cycas* 18. Emerson - Callus

IV. ANSWER ANY <u>SIX</u>, EACH ANSWER SHOULD NOT EXCEED 50 WORDS (6 x 3 = 18)

- 19. Fermentation.
- 20. Importance of Gibberellins.
- 21. Diagram of cycas L.S. of microsporangium.
- 22. Sorus in Adiantum.
- 23. Cut flowers preservation.
- 24. Styles of Bonsai.
- 25. Practical applications of Ethylene.
- 26. Salient features of Bryophyta.
- 27. Schematic cycle of Hatch Slack pathway.

SECTION - B

ANSWER ANY <u>FOUR</u> IN 200 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY $(4 \times 6=24)$

- 28. Explain photophosphorylation.
- 29. Draw a neat labelled diagram of the L.S. of capsule of Funaria.
- 30. Draw a neat labelled diagram of the L.S. of Cycas ovule.
- 31. What are components used in the flower arrangement?
- 32. Describe electron transport pathway.
- 33. Discuss the lab requirements for tissue culture.

SECTION - C

ANSWER ANY TWO QUESTIONS IN 1000 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY (2 x 20=40)

- 34. Explain Kreb's cycle in detail.
- 35. Describe the life cycle of *Adiantum*.
- 36. Explain the techniques involved in creating a Bonsai.
- 37. Describe the procedure involved in cultivation of oyster mushroom.
