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

SUBJECT CODE: 15BT/AC/GB24

B. Sc. DEGREE EXAMINATION, APRIL 2019 BRANCH VI(A) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY SECOND SEMESTER

PAPER : GE	LIED – CORE NERAL BOTANY – II OURS	MAX. MARKS: 100
	SECTION – A	
ANSWER ALL QUEST I. CHOOSE THE C	ORRECT ANSWER:	$(5 \times 1 = 5)$
 Which of the following Ephedra The End Product of Gly 	b) Pinus c)Cycas	d)Ginko
-	b) Acetic Acid c) Oxalo Acetic	c Acid d) Phosphoglyceric Acid
•	b) Photoperiodism c) Pho	otorespiration d) Geotropism
a) Jasmine5. Which one of the follow	b) Chrysanthemum c) Rose ving media is most commonly use b) B5 medium c) Nitsch med	ed in plant tissue culture?
II. FILL IN THE BI	ANKS:	$(5 \times 1 = 5)$
6. Adiantumbelongs to th7. Dark reaction takes pl8. Theplant hormone tha9. Gerbera is widely use10. Oyster mushroom is s	ace in of chloroplast. t helps in breaking the dormancy of d as	of plants is
III. STATE WHETH	ER TRUE OR FALSE:	$(4 \times 1 = 4)$
13. Long Day plants are the	have naked ovules. und produced in Calvin cycle is 3 nose that require less than 12hrs of or increasing the shelf life of cut f	f daylight for flowering.
IV. MATCH THE FO	DLLOWING	$(4 \times 1 = 4)$
15. Maiden hair fern16. C4 plants17. Florigen18. Paddy straw mushroom	 a) Kranz anatomy b) Volvariella c) Adiantum d) Flowering hormone 	

IV. ANSWER ANY SIX, EACH ANSWER SHOULD NOT EXCEED 50 WORDS $(6 \times 3 = 18)$

- 19. Secondary Protonema in Funaria.
- 20. Cycasmale cone
- 21. Red drop
- 22. Phosphorescence
- 23. Vernalization
- 24. ABA.
- 25. Bonsai.
- 26. Ikebana?
- 27. Totipotency.

- 28. Describe the salient features of Bryophytes.
- 29. Differentiate cyclic and non-cyclic photophosphorylation.
- 30. Draw the flowchart for Glycolysis.
- 31. Explain Photoperiodism.
- 32. Explain different types of Bonsai styles.
- 33. Briefly explain the sterilization techniques in plant tissue culture.

SECTION - C

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

- 34. Explain in detail the life cycle *Cycas*.
- 35. Give an account of Calvin cycle.
- 36. Give the schematic representation only of Kreb's cycle and oxidative electron transport chain.

Add note on its energy budget.

37. Give an account on the cultivation of Button mushroom.