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

SUBJECT CODE: BT/AC/GB23

B. Sc. DEGREE EXAMINATION, APRIL 2009 BRANCH VI(A) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY SECOND SEMESTER

COURSE PAPER TIME		: GENERAL BOTANY – II	100
		SECTION – A	
AN I		R ALL QUESTIONS HOOSE THE CORRECT ANSWER: (20 x 1 = 20))
	1.	The site of Photosynthesis in the plant cell is	
	2	a) Mitochondrion b) Chloroplast c) Nucleus	
	2.	The female sex organ of bryophytes is called a) Antheridium b) Carpogonium c) Archegonium	
	3.	Pseudo indusium is a characteristic feature of	
		a) Funaria b) Adiantum c) Cycas	
	4.	The hormone involved in fruit ripening is a) Ethylene b) Auxin c) Kinetin	
	5.	a) Ethylene b) Auxin c) Kinetin Surface sterilization of explants in tissue culture is usually done using	
	5.	a) PEG b) Abscissic acid c) Mercuric chloride	
II	FII	LL IN THE BLANKS:	
	6.	Light reaction takes place in the of the Chloroplasts.	
	7.	The process of breaking seed dormancy by mechanical breaking of seed coats	sis
	0	called	
	8.	The pollen chamber is present in the of <i>Cycas</i> .	d
	9.	The mass of undifferentiated tissue formed during plant tissue culture is called	u
	10.	Adiantum is commonly called	
	11.	Oxidative Phosphorylation takes place in the	
	12.	The nutrient medium commonly used in tissue culture is	
Ш	ST	ATE WHETHER TRUE OR FALSE:	
111	13.	Glycolysis takes place in the cytoplasm.	
	14.	Bolting is caused by auxin.	
	15.	Coralloid roots are negatively geotropic.	
	16.	The flowering hormone is called florigen.	
	17.	Tikka disease is caused by a virus.	
	18.	Sporophyte is diploid in Pteridophytes.	
	19.	The process of bagging is important in Hybridisation.	
	20.	Chlorophyll a is an accessory pigment in photosynthesis.	

IV ANSWER ANY SIX, EACH WITH 50 WORDS:

 $(6 \times 3 = 18)$

- 21. Hardening
- 22. Short day plants
- 23. Gibberellin
- 24. Pigment system I
- 25. Diploxylic condition
- 26. Operculum
- 27. Sorus
- 28. Photolysis
- 29. Pseudo-indusium

SECTION - B

V ANSWER ANY FOUR IN 200 WORDS EACH:

 $(4 \times 8 = 32)$

- 30. Give an account of Glycolysis.
- 31. Describe the male cone of *Cycas*.
- 32. List out the practical applications of auxins.
- 33. Explain the method of sterilization in tissue culture.
- 34. Describe the gametophte of *Funaria*.
- 35. Explain the cause, symptoms and control measures of Citrus canker.

SECTION - C

VI ANSWER ANY TWO IN 800 WORDS EACH:

 $(2 \times 15 = 30)$

- 36. Give an account of the Kreb's Cycle.
- 37. Describe the alternation of generation in *Adiantum*.
- 38. Write an essay on the technique of Hybridisation
- 39. Describe the light reactions of Photosynthesis.
