

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
(For candidates admitted from the academic year 2005-06 & thereafter)

**SUBJECT CODE: BT/AC/GB22**

**B. Sc. DEGREE EXAMINATION, APRIL 2007**  
**BRANCH VI(A) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**  
**SECOND SEMESTER**

**COURSE : ALLIED – CORE**  
**PAPER : GENERAL BOTANY – II**  
**TIME : 2 ½ HOURS** **MAX. MARKS : 100**

**SECTION – A**

**ANSWER ALL QUESTIONS**

**I CHOOSE THE CORRECT ANSWER : (5 MARKS)**

1. Dominant phase in Bryophytes is  
a) Gametophyte b) Sporophyte c) Saprophyte
2. Which of the following is not a synthetic Auxin?  
a) IAA b) NAA c) 2,4-D
3. Citrus canker is caused by  
a) Bacteria b) Fungi c) Virus
4. Krebs cycle takes place in  
a) Chloroplasts b) Mitochondria c) Peroxisomes
5. In Gymnosperms, the seeds are  
a) Present b) Absent c) Enclosed

**II FILL IN THE BLANKS : (5 MARKS)**

6. The organelle involved in photosynthesis is \_\_\_\_\_
7. \_\_\_\_\_ is a gaseous hormone
8. \_\_\_\_\_ is known as Maidenhair
9. Sudden elongation of stem followed by flowering is known as \_\_\_\_\_
10. The sori bearing leaves in Fern are known as \_\_\_\_\_

**III STATE WHETHER TRUE OR FALSE : (8 MARKS)**

11. Transfusion tissue is located in the Corolloid roots of Cycas
12. Krebs cycle is also known as TCA cycle
13. Indusium is associated with Cycas
14. Bryophytes are also known as Vascular cryptogams
15. 2,4-D is a selective weed killer

16. Sporophyte is a dominant phase in Ferns
17. Dark reactions of photosynthesis are also known as Calvin cycle
18. Pollen chamber is seen in Funaria.

**IV ANSWER ANY SIX, EACH WITH 50 WORDS : ( 3 x 6 =18 )**

19. ABA – Practical application
20. Draw L.S of Cycas ovule
21. Callus
22. Corolloid root
23. Citrus canker
24. Emasculation
25. Protonema
26. Anaerobic respiration
27. Protonema

**SECTION - B**

**V ANSWER ANY FOUR IN 200 WORDS EACH : ( 4 x 6 =24 )**

28. Mention any 6 important features of Bryophytes
29. Give a brief account of Photoperiodism
30. Give the schematic representation of EMP pathway
31. Describe the structure of Moss capsule
32. Mention the casual organism, symptoms and control measures of Tikka disease.
33. Draw labeled diagram of T.S of Cycas rachis

**SECTION - C**

**VI ANSWER ANY TWO EACH IN 1000 WORDS: ( 2 x 20 =40 )**

34. Write an essay on light reactions. Add a note on the differences between Cyclic and Non Cyclic electron transport and photophosphorylation.
35. Define alternation of generation. Explain with reference to Adiantum.
36. Write an essay on the practical application of growth hormones
37. Give an account of the basic techniques of plant tissue culture.

\*\*\*\*\*

