

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2004-05 & thereafter)

SUBJECT CODE: BT/AO/AB23

B. Sc. DEGREE EXAMINATION, APRIL 2008
BRANCH VI (A) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY
SECOND SEMESTER

COURSE : ALLIED – OPTIONAL
PAPER : APPLIED BOTANY
TIME : 3 HOURS
MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS

I MATCH THE FOLLOWING: (6 MARKS)

- | | | |
|------------|---|---------------|
| 1. Ginger | - | Asteraceae |
| 2. Pepper | - | Solanaceae |
| 3. Rice | - | Euphorbiaceae |
| 4. Coffee | - | Poaceae |
| 5. Rubber | - | Rubiaceae |
| 6. Tobacco | - | Piperaceae |
| | - | Zingiberaceae |

II STATE WHETHER TRUE OR FALSE: (6 MARKS)

- Agar-agar is extracted from green algae.
- Tissue culture experiments are performed in the laboratory.
- Hybridization is a method of crop improvement.
- KMS is used in the preservation of lime pickle.
- Aloe* is an example of a cash crop.
- Spirulina* is a novel fungal food.

III CHOOSE THE CORRECT ANSWER: (6 MARKS)

- The botanical name for sacred basil is
a) *O. americanum* b) *O. basilicum* c) *O. sanctum* d) *O. gratissimum*
- Oryza sativa* is the botanical name for
a) rice b) red gram c) coffee d) cashew
- Cut flowers are made from
a) rose b) gladioli c) carnation d) all of these
- Jam is made from
a) water melon b) sweet lime c) apples d) sour limes
- Mushrooms are
a) algae b) fungi c) dicots d) monocots
- Ethanol is an example of a
a) biofuel b) fermented food c) fungal food d) algal food

**IV EXPLAIN ANY SIX OF THE FOLLOWING TERMS IN 50 WORDS EACH
(6 X 3 = 18)**

19. Bonsai.
20. Gingelly.
21. Cheese.
22. Spawn.
23. Basal medium.
24. Common salt.
25. Emasculation.
26. Potting technique.
27. Cashew.

SECTION - B

ANSWER ANY FOUR OF THE FOLLOWING IN 200 WORDS: (4 x 6 = 24)

28. Write a short note on *Spirulina*.
29. Highlight the role of yeast in making of bread.
30. Describe any THREE medicinal plants.
31. What is meant by hanging basket?
32. Mention the uses of agar-agar.
33. How is lime syrup prepared?

SECTION – C

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

34. Discuss the principles of tissue culture.
35. Explain lawn-making and its maintenance.
36. How is mixed fruit jam prepared?
37. Give an outline of the production of ethanol
