

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086  
(For candidates admitted during the academic year 2010 - 11)

SUBJECT CODE: BT/MC/TE34

B. Sc. DEGREE EXAMINATION, NOVEMBER 2011  
BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY  
THIRD SEMESTER

COURSE : MAJOR – CORE  
PAPER : TAXONOMY OF ANGIOSPERMS & ECONOMIC BOTANY  
TIME : 3 HOURS MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS (18 marks)

I. CHOOSE THE CORRECT ANSWER:

1. Dicots that show no differentiation into calyx and corolla are placed in the Sub Class  
(a) Polypetalae (b) Monochlamydae (c) Gamopetalae
2. Hemicyclic flowers are seen in the Family  
(a) Annonaceae (b) Rutaceae (c) Cucurbitaceae
3. The special type of inflorescence seen in the genus *Euphorbia* is called  
(a) Catkin (b) Umbel (c) Cyathium
4. Which of the following is a source of dye?  
(a) *Indigofera* (b) *Nicotiana* (c) *Coriandrum*
5. Which is the economically useful part in cloves that is used as a spice?  
(a) Stem (b) Leaf (c) Unopened buds

II. FILL IN THE BLANKS:

6. Bentham and Hooker's system of classification is a ----- system
7. A pair of contrasting statements in an indented key is called a -----.
8. Resupination of corolla is seen in the Family -----
9. The Rapinat herbarium is located at-----
10. The characteristic fruit of the Family Apiaceae is -----

III. SAY WHETHER TRUE OR FALSE.

11. Rejected names are kept in a list called Nomina Conservanda
12. Linnaeus' classification is an artificial system of classification
13. Jute is an example of bast fibres of commercial importance
14. The binomial of snake gourd is *Momordica charantia*

II. MATCH THE FOLLOWING:

- |                        |   |                     |
|------------------------|---|---------------------|
| 15. Numerical taxonomy | - | <i>Piper betel</i>  |
| 16. Engler and Prantl  | - | OTU                 |
| 17. Masticatory        | - | Annonaceae          |
| 18. Hooded anther      | - | Phylogenetic system |

**IV. ANSWER ANY SIX QUESTIONS IN 50 WORDS EACH: (6X3=18)**

19. Taxon
20. ICBN
21. Valid publication
22. Polynomial
23. Plant press
24. Obdiplostemonous
25. Gynostegium
26. Gum
27. Cotton

**SECTION – B**

**ANSWER ANY FOUR QUESTIONS IN 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY: (4X6=24)**

28. Highlight the salient characters of the family lamiaceae.
29. Explain the principle of Typification
30. Describe the method of collection and drying of plant specimens
31. Write about the Androecium of Cucurbitaceae
32. List any six economically important plants of Family Fabaceae
33. Give the botanical name, common name, Family, uses and morphology of the useful part of any one condiment you have studied

**SECTION – C**

**ANSWER ANY TWO QUESTIONS IN 1000 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY: (2X20=40)**

34. Give an account of the Principle of Priority. Add a note on the rules of author citation in Taxonomy.
35. Describe the Bentham and Hooker's System of Classification
36. Describe the Salient features of the family Solanaceae. Add a note on its economic importance
37. Write an essay on the vegetative and floral characters of Family Apocynaceae.

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