

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
(For candidates admitted during the academic year 2019 – 2020 & thereafter)

**B. Sc. DEGREE EXAMINATION, NOVEMBER 2023**  
**BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**  
**THIRD SEMESTER**

**COURSE : MAJOR – CORE**  
**PAPER : TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY**  
**SUBJECT CODE : 19BT/MC/TE34**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

**SECTION – A**

**I. ANSWER ALL QUESTIONS** **(18 X 1=18)**  
**CHOOSE THE CORRECT ANSWER**

1. The classification given by Bentham and Hooker is  
a) Natural                      b) Artificial                      c) Numerical                      d) Genealogy
2. .... is the type of nomenclature where additional copies of holotype made by the author?  
a) Holotype                      b) Isotype                      c) Neotype                      d) Lectotype
3. The family Fabaceae is also known as  
a) Leguminosae                      b) Solanaceae                      c) Mimosoideae                      d) Rubiaceae
4. .... is the characteristic inflorescence of Euphorbiaceae.  
a) spike                      b) hypanthodium                      c) cyathium                      d) cyme
5. In Coconut, the dispersal is due to fibrous  
a) epicarp                      b) mesocarp                      c) endocarp                      d) none of the above

**II. FILL IN THE BLANKS**

6. The flowers with superior ovary is called \_\_\_\_\_
7. \_\_\_\_\_ gave the Artificial system of classification
8. Pollinia are found in \_\_\_\_\_
9. Cyathium inflorescence is found in \_\_\_\_\_
10. The oil is stored in the endosperm of \_\_\_\_\_

**III. STATE WHETHER TRUE OR FALSE**

11. The transfer of pollen grain to anther is fertilization
12. The formation of fruit without fertilization is called as parthenocarpy
13. A stamen consists of filament and anther

**IV. MATCH THE FOLLOWING**

- |                             |   |                  |
|-----------------------------|---|------------------|
| 14. Scorpioid               | - | Epiphyte         |
| 15. Winged fruit            | - | Botanical garden |
| 16. Orchids                 | - | Heliotropium     |
| 17. Kew                     | - | Taxonomical key  |
| 18. Specimen identification | - | Samara           |

**II. ANSWER ANY SIX IN 50 WORDS.  
(Each answer should not exceed 50 words.)**

**(6 X 3=18)**

19. What is Hypanthodium?
20. Define Chemo taxonomy.
21. Explain Binomial nomenclature.
22. Any 2 uses of keys.
23. write about Gynostegium
24. What is Glume?
25. What are the benefits of *Acacia catechu*?
26. List the morphology and Uses of pepper.
27. Write down the Botanical name, Common name of any 2 Masticatories.

**SECTION – B**

**ANSWER ANY FOUR QUESTIONS IN 200 WORDS EACH. DRAW DIAGRAMS  
WHEREVER NECESSARY:**

**(4 X 6=24)**

28. Describe the various types of Cymose inflorescence.
29. Write a note on BSI-Herbaria, Coimbatore.
30. Give the diagnostic features of Annonaceae..
31. Elucidate the characters of Euphorbiaceae with sketches.
32. Explain the processing and uses of Tea.
33. List down the Botanical name, Common name, Family, Morphology and Uses of Coconut.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS IN 1000 WORDS EACH. DRAW DIAGRAMS  
WHEREVER NECESSARY:**

**(2 X 20=40)**

34. What is meant by Natural system of classification? Add a note on its merits and demerits.
35. What is herbarium? Give the procedure for preparing it.
36. Explain the salient features of Asclepiadaceae with sketches. Add a note on its economic importance.
37. Describe the characteristic features of the family Orchidaceae.

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