

B. Sc. DEGREE EXAMINATION, NOVEMBER 2018
BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
THIRD SEMESTER

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

SECTION – A

I. ANSWER ALL QUESTIONS (18 marks)
CHOOSE THE CORRECT ANSWER

1. Pome is a
a. Dry dehiscent fruit b. Dry in dehiscent fruit c. Fleshy
2. Chemical used in the herbarium for poisoning
a. HgCl₂ b. MgCl₂ c. AgCl₂
3. Hemicyclic flowers are seen in
a. Annonaceae b. Rutaceae c. Apiaceae
4. Interpetiolar Stipules seen in
a. Fabaceae b. Arecaceae c. Rubiaceae
5. Nutmeg is a
a. bud b. seed c. fruit.

FILL IN THE BLANKS

6. Roots of Orchids are called -----.
7. Herbarium located in Trichy is -----.
8. ----- corolla is Characteristic of papillioideae.
9. Inflorescence of *Ocimum sanctum* is-----.
10. *Cinnamom* belongs to the family-----.

WRITE EITHER TRUE OR FALSE

11. Underground stem is rhizome
12. Nomenclature of a taxonomic group is based upon priority of publication.
13. *Citrus* species belongs to the family Rubiaceae.
14. Pollinia is present in the family Euphorbiaceae.

MATCH THE FOLLOWING

- | | |
|----------------------------------|---------------------------|
| 15. <i>Polyalthia longifolia</i> | a. Euphorbiaceae |
| 16. Pepo | b. Solanaceae |
| 17. Cyathium | c. Binomial |
| 18. Tobacco | d. <i>Cucumis sativus</i> |

II. Answer any six in 50 words. Each answer should not exceed 50 words.

(6x3=18)

19. APG III
20. Bulb
21. Herbarium
22. Kew Garden
23. Obdiplostemenous stamen
24. Aggregate fruit
25. Any three binomial of Acanthaceae
26. Guggul
27. *Acacia Catechu*

SECTION – B

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

(4X6=24)

28. Explain the types of Aestivation with suitable diagram.
29. Write a note on Author citation.
30. Write the tendril structure in Cucurbitaceae.
31. Explain the flower structure of Orchidaceae.
32. Comment on *Areca* nut and Betel leaf.
33. Write short notes on phyllotaxy.

SECTION – C

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

(2X20=40)

34. Give the detailed account of Bentham and Hooker system of classification with merits and demerits.
35. Compare the Characters of *Areceae* and *Poaceae*. Add the economic importance of *poaceae*.
36. Describe the diagnostic characteristic features and economic botany of *Fabaceae*.
37. Write an essay on uses of any four spices and condiments that you have studied. Also mention the botanical name, common name family and morphology of useful part of the above described.
