

B. Sc. DEGREE EXAMINATION, NOVEMBER 2015
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 RIGHT ANSWER: (5x1=5)

1. Genera plantarum was authored by
a. Bentham and Hooker b. Hutchinson c. Cronquist
2. The condition of androecium in Cucurbitaceae is
a. Syngenesious b. Monadelphous c. Synandrium
3. The ovary is obliquely placed in the members of
A. Annonaceae b. Apiaceae c. Solanaceae
4. Monochlamydous flowers are found in the family
a. Acanthaceae b. Fabaceae c. Amaranthaceae
5. Fibre is obtained from
a. Corchorus b. Polyalthia c. Aronora

II. FILL IN THE BLANKS: (5x1=5)

6. Father of Modern Taxonomy is.....
7. Naming of plants by two words is called.....
8. The imbricate aestivation of papilionaceous corolla is termed as.....
9. Piper betel is a.....
10. Asafoetida is a.....

III. SAY WHETHER TRUE OR FALSE: (4x1=4)

11. Sexual system of classification was given by Cronquist
12. The greatest Herbarium in the World is Royal botanical garden Kew, England.
13. *Ocimum sanctum* belongs to the family Convolvulaceae
14. The class Monocotyledonae is characterised by parallel venation

IV. MATCH THE FOLLOWING:**(4x1=4)**

- | | | |
|-------------------------------|---|-----------|
| 15. Calotropis | - | Spadix |
| 16. Aeraceae | - | Clove |
| 17. Artificial classification | - | Pollinium |
| 18. Syzygium aromaticum | - | Linnaeus |

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

19. Explain the importance of Taxonomy.
20. Write a short note on effective and valid publications.
21. What is the importance of binomial nomenclature?
22. Name three important Botanical gardens.
23. Write any three salient features of the family Annonaceae.
24. Write notes on Cyathium.
25. Give an account on spikelet.
26. Mention any three uses of fibre.
27. Define Tannin. Mention any three sources of tannin.

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

28. Highlight the characteristic features of the family lamiaceae.
29. Write briefly about botanical gardens.
30. Write notes on dichotomous keys.
31. Explain briefly the technique of herbarium preparation.
32. Describe the diagnostic characters of Nymphaeaceae.
33. Give a brief account of Spices and Condiments

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

34. Give an account of ICBN.
35. Enumerate the Bentham & Hookers system of classification. Mention its merits and demerits.
36. Compare and contrast the family Cucurbitaceae and Rubiaceae.
37. Describe the range of floral structure in Orchidaceae. Give the floral diagram and floral formula.
