

B. Sc. DEGREE EXAMINATION, NOVEMBER 2007
BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
THIRD SEMESTER

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

SECTION – A

ANSWER ALL QUESTIONS (18 marks)

I CHOOSE THE CORRECT ANSWER:

1. Umbel inflorescence is characteristic of
a. Rutaceae b. Apiaceae c. Solanaceae d. Lamiaceae
2. Gynobasic style is seen in
a. Apiaceae b. Rubiaceae c. Solanaceae d. Lamiaceae
3. A pair of statement in a key is called
a. Lead b. Character c. Couplet d. Pair
4. Synandrium is seen in
a. Annonaceae b. Cucurbitaceae c. Apocynaceae d. Lamiaceae
5. Spoon shaped translators occur in
a. Apocynaceae b. Periplocoideae c. Asteraceae d. Cynanchoideae
6. Negatively geotropic roots with minute pores to help in respiration are
a. Stilt roots b. Haustoria c. Pneumatophores d. Prop roots
7. Flower which can be cut into two equal halves at one vertical plane is
a. Achlamydous b. Zygomorphic c. Actinomorphic d. Asymmetrical
8. Verticillaster is seen in the family.
a. Lamiaceae b. Solanaceae c. Rubiaceae d. Rutaceae
9. Binomial nomenclature was introduced by
a. Linnaeus b. Benthem c. Hooker d. Engler
10. The inflorescence of Grass is
a. Corymb b. Spikelet c. Thyrsus d. Raceme

II. Match the following:

11. Hooded anther - Asclepiadaceae
12. Murraya - Solanaceae
13. Pollinium - Rutaceae
14. Adnation - Annonaceae

III. Fill in the blanks:

15. *Avena sativa* is the binomial of
16. Ovary bicarpellary, syncarpous, four celled with gynobasic style in.....
17. Adnation of leaves is seen in the family
18. Epigynous is ovary.

IV. Answer any six questions in 50 words each:

(6x3=18)

19. Vasculum
20. Resupination
21. Mention any three economically important plants of Solanaceae.
22. Typification
23. Herbarium
24. Hesperidium
25. Pollination in *Salvia*
26. Floral diagram of a grass flower
27. Fruit of Apiaceae.

SECTION – B

Answer any four questions in 200 words each. Draw diagrams wherever necessary:

(6x4=24)

28. Explain Tea cultivation.
29. Explain the processing of cotton.
30. Describe Adnation.
31. Describe the androecium of cucurbitaceae.
32. Give the floral diagram of Annonaceae and Fabaceae.
33. Give the salient features of family Rutaceae..

SECTION – C

Answer any two questions in 1000 words each. Draw diagrams wherever necessary:

(2x20=40)

34. Compare the floral characters of Apocynaceae and Asclepiadaceae.
35. Write an essay on the sugarcane production and extraction of sugar.
36. Give an account of plant nomenclature.
37. Describe the floral variation in Euphorbiaceae.
