

B. Sc. DEGREE EXAMINATION, NOVEMBER 2008
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:

- Hooded anthers are characteristic of
a) Fabaceae b) Cucurbitaceae c) Annonaceae d) Orchidaceae
- Epigynous flowers are seen in
a) Rutaceae b) Rubiaceae c) Solanaceae d) Lamiaceae
- Comose hairs are seen in the seeds of
a) *Coriandrum* b) *Cinchona* c) *Calotropis* d) *Leucas*
- Unisexual flowers are seen in
a) Poaceae b) Euphorbiaceae c) Rubiaceae d) Solanaceae
- The fruit of Citrus is
a) berry b) capsule c) drupe d) hesperidium
- National herbarium is situated in
a) Coimbatore b) Calcutta c) Cuttack d) New Delhi
- Adnation is characteristic of
a) Cucurbitaceae b) Solanaceae c) Lamiaceae d) Rubiaceae
- Monocarpellary pistil is seen in
a) Annonaceae b) Fabaceae c) Poaceae d) Apiaceae
- Labellum in orchids represents
a) calyx b) perianth c) stamen d) Staminode
- In *Borassus* the edible part is
a) the fruit b) all c) cotyledon d) endosperm

II. MATCH THE FOLLOWING:

- | | | |
|------------------------|---|---------------|
| 11. carina | - | <i>Vinca</i> |
| 12. ruminant endosperm | - | <i>Oryza</i> |
| 13. sagittate anthers | - | <i>Annona</i> |
| 14. glumes | - | <i>Pisum</i> |

III. FILL IN THE BLANKS:

- The inflorescence of *Euphorbia* is _____.
- Cucurbitaceae shows _____ anthers.
- Gynobasic style is characteristic of the family _____.
- The fruit of Apiaceae is _____.

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

19. author citation
20. spikelet
21. indented key
22. follicle
23. herbarium preparation
24. obdiplostemony
25. verticillaster
26. binomials of three useful plants in Apocynaceae
27. underground stems

SECTION – B**ANSWER ANY FOUR QUESTIONS IN 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY: (6X4=24)**

28. Write about the harvesting and processing of Tea.
29. Explain the processing of Sugarcane.
30. What is ICBN? Explain typification.
31. Describe the androecium of Asclepiadaceae and give the floral diagram.
32. Explain the floral structure of Papilionaceae.
33. Describe the gynoecium of Apocynaceae and Lamiaceae.

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

34. Write about Bentham and Hookers' classification indicating the merits and demerits.
35. Explain the cultivation and processing of Paddy.
36. Describe the types of fruits in the families you have studied.
37. Make a comparison of the floral structure among the Monocot families you have studied.
