

B. Sc. DEGREE EXAMINATION, NOVEMBER 2010
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:

- The study of operational taxonomic unit is
a) chemotaxonomy b) numerical taxonomy c) cytotaxonomy d) biosystematics
- The characteristic inflorescence of Lamiaceae
a) Capitulum b) Verticillaster c) Raceme d) Spike
- A pair of lead is a
a) dichotomous key b) couplet c) trichotomous key d) bracketed key
- Binomial nomenclature was introduced by
a) Linnaeus b) Bentham & Hooker c) Cronquist d) Hutchinson
- Eleusine coracana* is a member of
a) Annonaceae b) Poaceae c) Fabaceae d) Orchidaceae
- Royal botanical garden is in
a) Australia b) kew c) Kuala lumpur d) Karachi
- Hemicyclic flowers are seen in
a) Nymphaeaceae b) Rutaceae c) Apocynaceae d) Annonaceae
- Descendingly imbricate aestivation is characteristic of
a) Asteraceae b) Papilionaceae c) Caesalpinaceae d) Mimosaceae
- Cremocarp is a type of
a) corolla b) stamen c) carpel d) fruit
- Type of inflorescence in Poaceae
a) spadix b) spike c) corymb d) thyrus

II. MATCH THE FOLLOWING:

- | | | |
|-------------------|---|-------------------|
| 11. Dustbin group | - | Dye yielding () |
| 12. Rostellum | - | Amaranthaceae () |
| 13. Indigofera | - | Solanaceae () |
| 14. Adnation | - | Orchidaceae () |

III. FILL IN THE BLANKS:

- Based on priority principle the first author's name is inside the _____.
- In Bentham & Hooker's system position of Gymnosperm is an _____.
- Translators are seen in the family _____.
- Transition of petals of stamens is characteristic of _____.

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

19. Resupination.
20. Effective & valid publications.
21. Mention any six important herbaria.
22. Describe the gynoecium of Annonaceae.
23. Cyathium inflorescence.
24. Synandrium.
25. Inflorescence of Arecaceae.
26. Differentiate Gum & Resins
27. Mention any three spices.

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

28. Compare the floral parts of Caesalpinaceae and Mimosaceae.
29. Define Nomenclature. Explain Binomial nomenclature.
30. Describe an Umbel inflorescence & List any four genera of economic importance in Family Apiaceae.
31. Give the merits and demerits of Bentham & Hooker's classification.
32. Explain Adnation with diagrams.
33. Brief account of Masticatories.

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

34. Give a Comparative account of Apocynaceae and Asclepiadaceae.
35. Describe the floral variation in Euphorbiaceae.
36. Describe the floral characters of Poaceae. Mention any five economically important plants of poaceae.
37. Write an essay on the fibre yielding plants.
