

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2008-09)

SUBJECT CODE: BT/MC/TE34

B. Sc. DEGREE EXAMINATION, NOVEMBER 2009
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. Spadix inflorescence is seen in
a) Annonaceae b) Apiaceae c) Arecaceae d) Poaceae
2. Rapinat herbarium is located at
a) Trichy b) Bangalore c) London d) Calcutta
3. Marginal placentation is seen in
a) Rubiaceae b) Apiaceae c) Fabaceae d) Apocynaceae
4. *Termialia* yields
a) Dye b) Tannin c) Resin d) Gum
5. Amarantaceae belongs to
a) Monochlamydae b) Monocotyledonae c) Bicarpellatae d) Ranales
6. Adnation is seen in members of
a) Annonaceae b) Solanaceae c) Arecaceae d) Poaceae
7. Species Plantarum was written by
a) Linnaeus b) Bentham c) de Candolle d) John ray
8. Asafoetida is a gum resin obtained form
a) Roots b) Stem c) Bark d) leaf
9. Botanical name for barley is
a) *Hordeum vulgare* b) *Secale cereale* c) *Avena sativa* d) *oryza sativa*
10. Reserpine is a drug obtained from
a) *Papaver somnifera* b) *Rauwolfia serpentina* c) *Withania somnifera*
d) *Cinchona*

II. MATCH THE FOLLOWING:

- | | | |
|-------------------------------|---|---------------------|
| 11. Hesperidium | - | <i>Oryza sativa</i> |
| 12. Unisexual flowers | - | <i>Hamelia</i> |
| 13. Monochasial helicoid cyme | - | Rutaceae |
| 14. Caryopsis | - | <i>Ricinus</i> |

III. FILL IN THE BLANKS:

15. Umbel inflorescence is seen in _____.
16. Hemicyclic flowers are seen in _____.
17. In Cucurbitaceae _____ shows polypetalous corolla.
18. _____ is a giant herb of Poaceae.

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

19. Binomial.
20. Indented keys.
21. Synandrous stamen.
22. Translator.
23. Bilabiate corolla.
24. Didynamous condition.
25. Name 3 botanical gardens and their location.
26. Caruncle.
27. Ruminant endosperm.

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

28. Define Nomenclature, Explain Typification.
29. Give a short account on numerical taxonomy.
30. Bring out the characters of Nymphaeaceae.
31. Explain the structure of inflorescence in Euphorbiaceae.
32. Give the structure of the gynostegium of Orchidaceae.
33. Explain the androecium and gynoecium of Rutaceae.

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

34. Give a detailed account of Bentham and Hookers classification and add a note on the merits and demerits.
35. Explain in detail collection, pressing, drying, poisoning, mounting and preserving plant materials.
36. Compare and contrast Apocynaceae and convolvulaceae.
37. Give the binomial, common name, family and morphology of the useful part for 2 fiber yielding, 2 spice yielding one plant and one dye yielding plant.
