

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted in the academic year 2015– 16)

SUBJECT CODE: 15 BT/MC/TE34

B. Sc. DEGREE EXAMINATION, NOVEMBER 2016
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. Order Rosales in Bentham and Hooker's Classification comes under the Series
(a) Calyciflorae (b) Disciflorae (c) Bicarpellatae
2. The Rapinat herbarium is located in
(a) Coimbatore (b) Kolkata (c) Trichy
3. Obdiplostemonous condition is seen in the family
(a) Cucurbitaceae (b) Rutaceae (c) Fabaceae
4. Cyathium inflorescence is characteristic of the genus
(a) *Euphorbia* (b) *Murraya* (c) *Croton*
5. The genus *Acacia* is the source of
(a) Cinnamon (b) Gum Arabic (c) Fenugreek

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

6. Custard apple is example for -----type of fruit.
7. The metal container used for collecting plants is called -----.
8. Cremocarp is the characteristic feature of family -----.
9. Gynobasic style is seen in the Family -----.
10. The fine fibrous hairs on the seeds are of commercial importance in -----.

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

11. Series Inferae is included under the Sub class Polypetalae of Bentham and Hooker's Classification.
12. Staminodes are seen in Family Caesalpiaceae.
13. Genus *Nerium* belongs to Apocynaceae.
14. Areca nut and Betel leaf are used as masticatories.

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

- | | | |
|--------------------|----|------------|
| 15. Receptacle | -- | Tannins |
| 16. Standard petal | -- | Solanaceae |
| 17. Adnation | -- | Fabaceae |
| 18. Acacia catechu | -- | Thalamus |

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

19. Zygomorphic flower
20. Polynomial
21. Sim's park
22. Any three economically important plants of Family Rutaceae (Binomials only)
23. Androecium of Annonaceae
24. Flower of Acanthaceae
25. Inflorescence of Amaranthaceae
26. Fenugreek
27. Dammar gum

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

28. Give an account of the Merits and demerits of Bentham and Hooker's classification.
29. Write notes on Author citation according to ICN.
30. List out the binomials of any six economically important plants of Family Fabaceae.
31. List out the Diagnostic characters of Family Rubiaceae.
32. Describe the inflorescence of grasses with a neat diagram.
33. Give an account of the different gums yielding plants you have studied.

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

34. Give an account of APG system of classification.
35. Describe the range of floral characters and economic importance of Family Cucurbitaceae.
36. Explain the diagnostic characters, floral variation and economic importance of Family Orchidaceae.
37. Write an essay on the morphology, uses, binomial and Family of five spices and condiments you have studied.
