# B. Sc. DEGREE EXAMINATION, NOVEMBER 2012 <br> BRANCH V (a) - PLANT BIOLOGY AND PLANT BIOTECHNOLOGY <br> THIRD SEMESTER 

| COURSE | $:$ | MAJOR - CORE |
| :--- | :--- | :--- |
| PAPER | $:$ | TAXONOMY OF ANGIOSPERMS \& ECONOMIC BOTANY |
| TIME | $:$ | 3 HOURS |
| MAX. MARKS: 100 |  |  |

## SECTION - A

ANSWER ALL QUESTIONS
I. CHOOSE THE CORRECT ANSWER:

1. Ocimum belongs to the family
a) Lamiaceae
b) Annonaceae
c) Apocynaceae
d) Arecaceae
2. The term Phyllotaxy is used to describe
a) Type of ovary
b) Mode of arrangement of leaves in a stem
c) Type of root
d) Arrangement of sepals
3. Tendril climber is a characteristic feature of
a) Annonaceae
b) Acanthaceae
c) Cucurbitaceae
d) Lamiaceae
4. Cannabis sativa is commonly known as
a) Hemp
b) Pорру
c) Cumin
d) Pepper
5. Betel leaf is a
a) Spice
b) Resin
c) Tannin
d) Masticatories

## II. FILL IN THE BLANKS:

6. Ixora belongs to the family $\qquad$ .
7. Stamens attached to the petals are referred $\qquad$ .
8. When Petals or sepals lie close to each other without overlapping, the aestivation is known as $\qquad$ .
9. The fruit of Nymphaeaceae is $\qquad$ .
10. Jute is the common name for $\qquad$ -.

## III. SAY WHETHER TRUE OR FALSE.

11. Isotype is the duplication of holotype.
12. Vasculum is a type of inflorescence.
13. Amaranthaceae belongs to Polypetalae.
14. Asafoetida is a gum resin.

## II. MATCH THE FOLLOWING:

15. Linnaeus
16. Gamopetalous
17. Cocos nucifera
18. Eugenia

Arecaceae
Artificial system of classification
Spice
Petals fused

## IV. ANSWER ANY SIX QUESTIONS IN 50 WORDS EACH:

19. ICBN
20. Use of dichotomous keys.
21. Botanical gardens.
22. Holotype
23. Tendrils in cucurbitaceae.
24. Three key characters of Annonaceae.
25. Three economically important plants of Solanaceae.
26. Spikelet of Poaceae.
27. Fumitories

## SECTION - B

## ANSWER ANY FOUR QUESTIONS IN 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:

28. State the differences among the Artificial, Natural and Phylogenetic system of classification.
29. Write a brief note on Binomial system of Nomenclature.
30. Draw floral diagram of Cyathium in Euphorbiaceae and mention its floral formula.
31. What are the characteristic features of Orchidaceae?
32. Give the botanical name, family, morphology of the useful part and uses of Cotton.
33. Write short notes on gums and resins.

## SECTION - C

## ANSWER ANY TWO QUESTIONS IN 1000 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:

34. Give a broad outline of Bentham and Hooker's system of classification. Add its merits and demerits.
35. Write in detail about Herbarium techniques.
36. Write an essay on the salient features and economic importance of Fabaceae.
37. Compare and contrast the floral structures of Rutaceae and Apocynaceae.
