

**B. Sc. DEGREE EXAMINATION, NOVEMBER 2022**  
**BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**  
**THIRD SEMESTER**

**COURSE : MAJOR – CORE**  
**PAPER : TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

**SECTION – A**

**I. ANSWER ALL QUESTIONS** **(18x1=18)**  
**CHOOSE THE CORRECT ANSWER**

1. Phylogentic system of classification was given by  
a. Bentham and Hooker                      b. Linnaeus                      c. APG
2. Stem which creeps on the surface of the soil is called  
a. Runner                      b. Rhizome                      c. Stolon
3. Which is correct for Catkin  
a. Axis is long, weak & pendulous      b. Flowers are unisexual      c. Both
4. Specimens collected from the same locality from where Holotype is collected  
a. Syntype                      b. Neotype                      c. Isotype
5. Southern Circle of Botanical Survey of India is situated at  
a. Coimbatore                      b. Pune                      c. Hyderabad
6. The collection of dried plants are called  
a. herbarium                      b. specimen                      c. museum

**II. FILL IN THE BLANKS**

7. Obdiplostemonous condition is common in \_\_\_\_\_ family.
8. Pepo fruit is common in \_\_\_\_\_ family.
9. Interpetiolar stipules is common \_\_\_\_\_ family.
10. Staminal Corona is seen in \_\_\_\_\_ family

**III. WRITE EITHER TRUE OR FALSE**

11. Sepals are persistent in Solanaceae.
12. Flowers of Orchidaceae are well adapted for wind pollination.
13. Groundnut oil are obtained from seeds.
14. Dyes are obtained from *Acacia catechu*.

**IV. MATCH THE FOLLOWING**

- |              |   |               |
|--------------|---|---------------|
| 15. Jute     | - | Euphorbiaceae |
| 16. Tuber    | - | Geraniales    |
| 17. Rutaceae | - | Tiliaceae     |
| 18. Manihot  | - | Stem          |

**II. ANSWER ANY SIX IN 50 WORDS.****(Each answer should not exceed 50 words.)****(6x3=18)**

19. Offset
20. Twisted Aestivation
21. Dichotomous Keys
22. Botanical Gardens
23. Polyadelphous
24. Follicle
25. Axile placentation
26. Importance of Orchids
27. Names of dye yielding plants

**SECTION – B****ANSWER ANY FOUR QUESTIONS IN 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:****(4x6=24)**

28. Write the merits and demerits of Bentham and Hooker's system of classification.
29. Explain the functions of herbarium.
30. Mention the floral characters of Rutaceae.
31. Discuss the diagnostic characters of Apocyanaceae
32. List the ornamental plants in Euphorbiaceae.
33. Write a note on Beverages.

**SECTION – C****ANSWER ANY TWO QUESTIONS IN 1000 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:****(2x20=40)**

34. Write an essay on Racemose type of Inflorescence
35. Describe in detail the preparation of herbarium
36. Explain in detail the characters of Amaranthaceae
37. Write the Morphology, processing and uses of sugarcane

\*\*\*\*\*