

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**FOURTH SEMESTER – APRIL 2018**

**PB 4510– ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY**

Date: 09-05-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART - A**

**Answer the following, each within 50 words.**

**(10x2= 20 marks )**

1. Write about the contributions of Engler and Prantle to Taxonomy.
2. Define a Species.
3. What is Author citation? Give example
4. Expand ICBN. Add a note on its importance.
5. Write a note on the flowers of *Capparidaceae*.
6. What is syngeneceous anther?
7. Write about Verticillaster inflorescence.
8. Write notes on Spikelet inflorescence.
9. Write the scientific name of any two fibre yielding plants.
10. Mention the uses of any two medicinal plants of *Euphorbiaceae*.

**PART - B**

**Answer the following, each within 500 words. Draw diagrams and flow charts wherever necessary.**

**(5X7= 35 marks)**

11. a) Briefly explain the Bentham and Hooker's system of classification.

**(OR)**

- b) Explain the Artificial system of classification by Linnaeus.

12. a) Write about the techniques involved in Herbarium preparation.

**(OR)**

- b) Briefly explain Numerical Taxonomy.

13. a) Write about the medicinal plants of *Rutaceae*.

**(OR)**

b) List out the identifying features of *Anacardiaceae*.

**(OR)**

14. a) List out the diagnostic features of *Apocynaceae*.

**(OR)**

b) Write about leaf adnation in *Solanaceae* members.

15. a) Write about the economic values of any 4 millets studied by you.

**(OR)**

b) Write about any 3 pulses studied by you.

### **PART – C**

**Answer any three of the following, each within 1200 words. Draw diagrams and flow charts wherever necessary. (3 x15= 45 marks)**

16. What are Keys? Discuss in detail about the Indented and Bracketed Keys.

17. Write an account on Cladistics and molecular taxonomy.

18. Write about the vegetative and reproductive characters of *Cucurbitaceae*. Add a note on any 5 useful plants.

19. What are the taxonomic features of the family *Lamiaceae*? How they are being used for their medicinal values?

20. Write about any 3 Beverages and Spices known to you. List out their economic importance.

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