

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FOURTH SEMESTER – APRIL 2016

PB 4510 – ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY

Date: 20-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY

(10x2= 20 marks)

1. Write about the contributions of Linnaeus.
2. Define a Taxon.
3. What is double citation? Give example.
4. What are the chemicals used for poisoning the herbarium specimens?
5. Comment on the androecium of Caesalpiniaceae.
6. Write about the life forms (Habits) of Cucurbitaceae.
7. What are interpetiolar stipules? Where are they found?
8. Resupination of Perianth - Comment.
9. What are essential oils? Name any two.
10. Write notes on any 2 timber yielding plants.

PART – B

**ANSWER THE FOLLOWING, EACH ANSWER WITHIN 500 WORDS,
DRAW DIAGRAMS WHEREVER NECESSARY**

(5x7= 35 marks)

11. a) Explain Polypetalae of Bentham and Hooker's system of classification.
(OR)
b) Bring out the flow- chart of Engler and Prantl's system of classification.
12. a) Explain about International Code of Botanical Nomenclature.
(OR)
b) Write an account on Herbarium technique.
13. a) Write about the flowers and fruits of Annonaceae.
(OR)
b) List out the identifying features of Capparidaceae.
(OR)
14. a) Explain about the inflorescence of Lamiaceae.
(OR)
b) What is leaf adnation? Explain about its types.
15. a) Write about the economic values of any 5 pulses known to you.
(OR)
b) What are essential oils? Write about any 5 essential oils studied by you.

PART – C

**ANSWER ANY THREE OF THE FOLLOWING, EACH ANSWER WITHIN 1200 WORDS,
DRAW DIAGRAMS WHEREVER NECESSARY (3 x15= 45 marks)**

16. Write a detailed account on Artificial sexual system of classification of plants by Linnaeus and add a note on its merits and demerits.
17. Explain about Numerical Taxonomy and its application.
18. Write about the salient features of the family Rutaceae and bring out any 5 economically important plants of the family.
19. What are the salient features of the family Poaceae? Add a note on economically important plants belong to the family poaceae.
20. Write the botanical names, family, useful parts and uses of any five cereals and medicinal plants.

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