



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FOURTH SEMESTER – APRIL 2015

PB 4510 - ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY

Date : 16/04/2015

Dept. No.

Max. : 100 Marks

Time : 09:00-12:00

PART – A

(10 x 2 = 20 marks)

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY.

01. What is intended key?
02. Mention the merits of Bentham and Hooker's classification.
03. Expand author citation
04. What is numerical taxonomy?
05. Distinguish racemose from cymose inflorescence.
06. Give the botanical name of Mango and Cashewnut.
07. Mention any two characters of Solanaceae.
08. Comment on the spikelet of Poaceae.
09. What are millets?
10. What are narcotics? Give an example.

PART – B

ANSWER THE FOLLOWING, EACH WITHIN 500 WORDS.

(5 x 7 = 35 marks)

DRAW DIAGRAMS WHEREVER NECESSARY.

- 11a. Explain how anatomical and cytological characters are used in the classification of plants.
(OR)
b. Write a brief note on binomial system of nomenclature.
- 12a. Explain briefly the herbarium technique.
(OR)
b. What is effective and valid publication? Explain.
- 13a. List out the salient features of the family Cucurbitaceae.
(OR)
b. Enlist the distinguishing characters of Capparidaceae.
- 14a. Discuss the floral characters of Orchidaceae.
(OR)
b. Enumerate the diagnostic features of Apocynaceae.
- 15a. Write notes on spices and condiments.
(OR)
b. Give the botanical name, family and uses of any three timber yielding plants.

PART – C

ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS.

DRAW DIAGRAMS WHEREVER NECESSARY.

(3 x 15 = 45 marks)

16. Outline Engler and Prantl's system of classification (Dicotyledonae only).
17. Discuss "Modern trends in Plant taxonomy" giving suitable examples.
18. Enumerate the salient features of the family Annonaceae. Add a note on its economic importance.
19. Describe the characteristic features of Rutaceae and Euphorbiaceae.
20. Give the binomial, family and morphology of useful parts of the following in a tabular form:

(i) Rice	(ii) Wheat	(iii) Soybean	(iv) Groundnut	(v) Tea
(vi) Coffee	(vii) Cotton	(viii) Jute	(ix) Castor	(x) Ragi.

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