

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FOURTH SEMESTER – NOVEMBER 2015

PB 4510 - ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY

Date : 26/09/2015

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

PART – A

[10 X 2 = 20]

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY

1. What is binomial nomenclature?
2. Give a brief account on Linnaeus.
3. What is a Holotype?
4. What is Author citation?
5. Describe hooded anther.
6. What is gynophore?
7. Give any two diagnostic features of Amaranthaceae.
8. What is Gynostegium?
9. Give the botanical name of any two timber yielding plant.
10. Give the botanical name of barley and oats.

PART – B

[5 X 7 = 35]

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

- 11a. What are botanical keys? Compare the bracketed key with indented key.

(OR)

- b. Describe the importance of taxonomical studies.

- 12a. State the principles of ICBN.

(OR)

- b. Explain the recent trends in chemotaxonomy.

- 13a. Summarise the salient features of Annonaceae.

(OR)

- b. Give an account on the floral characters of Cucurbitaceae.

14a. Describe the general characters of Lamiaceae.

(OR)

b. Describe the salient features of Euphorbiaceae.

15a. Differentiate cereals from millets. Give examples.

(OR)

b. Write an account on essential oils. Give any five examples.

PART – C

(3 X 15 = 45)

ANSWER **ANY THREE** OF THE FOLLOWING, EACH WITHIN 1200 WORDS,
DRAW DIAGRAMS WHEREVER NECESSARY

16. Give the outline of the Bentham and Hooker's classification of plants and add a note on the merits and demerits of the system.
17. Describe the herbarium techniques. Write about the importance of herbaria and mention any two famous herbaria.
18. Compare the floral characters of Rutaceae and Anacardiaceae.
19. Give the salient features of the family Poaceae and write about its importance.
20. Differentiate spices and condiments. Give atleast five examples each for species and condiments with the binomial name and the useful part.

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