

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



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

**FOURTH SEMESTER – NOVEMBER 2016**

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

Date: 04-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**PART – A**

**(10 x 2 = 20 marks)**

**ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY.**

01. Define Taxonomy
02. What is palynology?
03. Define Cladistics
04. What is meant by effective publication?
05. Name the family which has the following character.
  - (i) Gynandrophore.
  - (ii) Gland dotted leaves.
06. Mention any two characters of the family Anacardiaceae.
07. Write notes on Cyathium.
08. Give the systematic position of the family Solanaceae.
09. What are essential oils?
10. Give the morphology of the part used in
  - (i) Clove
  - (ii) Cinnamon.

**PART – B**

**(5 x 7 = 35 marks)**

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

- 11a. Explain the procedure in constructing dichotomous key.  
(OR)
  - b. Write an account on the role of morphology in Taxonomy.
- 12a. What is numerical taxonomy? Explain.  
(OR)
  - b. Write notes on author citation.
- 13a. Mention the salient features of the family Annonaceae.  
(OR)
  - b. Describe the floral characters of Caesalpinaceae.
- 14a. Explain the diagnostic features of Amaranthaceae.  
(OR)
  - b. Enlist the characteristic features of the family Orchidaceae.
- 15a. Write an account on non-alcoholic beverages.  
(OR)
  - b. Write the botanical name, family and useful part of the following:
    - (i) Cotton
    - (ii) Manila hemp
    - (iii) Jute.

PART – C

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

**DRAW DIAGRAMS WHEREVER NECESSARY.**

**(3 x 15 = 45 marks)**

16. Outline Bentham and Hooker's system of classification.

17. Write detailed notes on:

(i) Herbarium technique

(ii) ICBN.

18. Discuss the salient features of the family Cucurbitaceae and mention its economic importance.

19. Explain the floral characters of Rubiaceae and Poaceae.

20. Give the binomial, family and morphology of the useful parts of the following in a tabular form

(i) Pearl millet

(ii) Oat

(iii) Pea

(iv) Coconut (v) Black pepper

(vi) Tobacco

(vii) Ginger

(viii) Teak

(ix) Turmeric (x) Cedar wood oil.

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