



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & BIOTECH.

THIRD SEMESTER – NOVEMBER 2013

**PB 3506/PB 3502 – ANGIOSPERM TAXONOMY, ECONOMIC BOTANY &
EMBRYOLOGY**

Date : 06/11/2013
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

PART – A

ANSWER THE FOLLOWING, EACH ANSWER WITHIN 50 WORDS ONLY: (10 x 2 = 20)

1. What is author citation? Give one example.
2. Define Molecular taxonomy – define.
3. Mention the floral formulae in Capparidaceae.
4. What is Actinomorphic flower.
5. Give the binomial of Asafoetida and give any one use of it.
6. Give the binomial of Finger millet and any one use of it.
7. Define cleistogamy.
8. Explain tapetum.
9. What is chalazogamy?
10. Define endosperm.

PART – B

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

(5 x 7 = 35)

11. a) Explain briefly chemo taxonomy.
(Or)
b) Explain the importance of botanical keys in plant identification.
12. a) Describe the taxonomic features of Cucurbitaceae and mention the importance any 4 important genera.
(Or)
b) Explain the characteristic features of Poaceae and add a note on its economic importance.
13. a) Give the Binomial, Family and Morphology of the useful part and uses of Saffron, Oats and Tobacco.
(Or)
b) Give the Binomial, Family, Morphology of the useful part and uses of Red gram, Clove and Belladonna.
14. a) Describe the structure of a mature microsporangium.
(Or)
b) Define pollination and explain the contrivances over cross –pollination.
15. a) Draw a neat labeled diagram of a mature ovule.
(Or)
b) Describe double fertilization.

PART - C

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

DRAW DIAGRAMS WHEREVER NECESSARY:

(3 x 15 = 45)

16. Explain in detail the classification of Bentham & Hooker.
17. Describe the vegetative and floral characteristics of Euphorbiaceae and mention the economic importance of the family.
18. Give the Binomial, Family, and Morphology of the useful part and uses of Barley, Opium, Cardamom, Pepper and Teak.
19. Describe the development of female gametophyte in Peperomia.
20. Define and differentiate Polyembryony and Parthenocarpy.

\$\$\$\$\$\$