



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & PLANT BIO-TECH.

THIRD SEMESTER – APRIL 2013

PB 3506/PB 3502 - ANGIOSPERM, TAXONOMY, ECO.BOTANY & EMBRYOLOGY

Date: 29/04/2013
Time: 9:00 - 12:00

Dept. No.

Max. : 100 Marks

PART – A

Answer the following, each within 50 words only:

(10 x 2 = 20)

01. Who is Linnaeus? Give his contribution.
02. Explain operational taxonomic unit.
03. Write short note on the fruit of Cucurbitaceae.
04. What are staminodes?
05. Mention the uses of Sandalwood oil & Cedarwood oil.
06. Give the botanical name of Oats & Finger millet.
07. List two applications of Palynology.
08. Draw the Peperomia type of embryosac.
09. Define triple fusion.
10. Explain Parthenocarpy.

PART – B

Answer the following, each answer within 500 words.

Draw diagrams wherever necessary:

(5 x 7=35)

11. (a) Give the highlights of artificial, natural & phylogenetic system of classification.
(or)
(b) How will you use botanical keys in identification?
12. (a) Describe the floral characters of Apocynaceae.
(or)
(b) Describe the Cyathium of Euphorbiaceae. List any two plants of economic importance.
13. (a) What are spices? Give the morphology of the useful part & the uses of any three spices.
(or)
(b) Give the botanical name, family and the uses of Belladonna and Indian Periwinkle.
14. (a) Draw and describe structure of a the mature anther.
(or)
(b) Draw and describe the Polygonum type of female gametophyte.
15. (a) Write briefly on Apomixis.
(or)
(b) Give a brief account on the different types of endosperm.

PART – C

Answer any Three of the following, each within 1200 words.

Draw diagrams wherever necessary:

(3 x 15 = 45)

16. What is binomial nomenclature. Explain its importance. What is the basis of an effective and valid publication?
17. Describe the vegetative, floral characters and the fruit of family Solanaceae. Give the botanical name and the economic importance of any five plants.
18. Give the botanical name, family, morphology of useful part and uses of Green gram, Cocoa, Opium, Teak and Jute.
19. Define Pollination. Explain the two types and its contrivances.
20. Explain in detail the development of a dicot embryo with a suitable example.

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