

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

THIRD SEMESTER – APRIL 2018

PB 3506– ANGIOSPERM, TAXONOMY, ECO.BOTANY & EMBRYOLOGY

Date: 05-05-2018

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART – A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS.

(10X2= 20 Marks)

1. Write the contribution of Linnaeus.
2. Expand ICBN. Add a note on its importance.
3. What is Gynandrophore?
4. Draw the diagram of Cyathium inflorescence.
5. Write the uses of Coconut fibre.
6. Write the binomial and uses of Opium.
7. What is Tapetum?
8. Comment on Pollen grains
9. What is Orthotropous ovule?
10. What is Self-pollination?

PART – B

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

(5X7= 35 Marks)

11. a) Write the Merits and Demerits of Bentham and Hooker's system of classification.

(OR)

b) Bring out the flow-chart of Engler and Prantl system of classification

12. a) Write the salient features of Anacardiaceae.

(OR)

b) Write an account on inflorescence of Apocynaceae.

13. a) Write about the uses of any 3 spices studied by you.

(OR)

b) List out any 3 timber yielding plants and add the value of timber.

(OR)

14. a) Define palynology and add a note on its applications.

(OR)

b) Write a short note on Cross Pollination.

15. a) Write about the structure and development of Nuclear endosperm.

(OR)

b) What is Polyembryoni? Write about its significance.

PART – C

ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS. DRAW DIAGRAMS AND FLOWCHARTS WHEREVER NECESSARY. (3 X15= 45 Marks)

16. Write a detailed account on Binomial Nomenclature. Add a note on effective and valid Publication.

17. Write about the salient features of the family Poaceae and bring out any five economically important plants of the family.

18. Write in detail about and five Medicinal plants studied by you.

19. Write a detailed note on Microsporogenesis, illustrate with suitable diagram

20. Explain the structure and development of Monocot Embryo.
