

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FOURTH SEMESTER – APRIL 2019

17/16UPB4MC01– ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY

Date: 03-04-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART- A

Answer the following, each within 50 words.

(10 x 2=20marks)

1. Write any four salient features of Angiosperms.
2. Define APG.
3. What is rule of priority?
4. What is cladistics?
5. Write any four economic importance of Rutaceae.
6. Write about the gynoecium of Anacardiaceae.
7. Define cyathium.
8. Write about the inflorescence in Poaceae.
9. How is opium obtained? How is it used?
10. List any two important uses of pulses.

PART- B

Answer the following, each within 500 words. Draw diagrams wherever necessary.

(5 x 7=35 marks)

11(a) Explain the objectives and scope of taxonomy.

(OR)

11(b) Write short notes on taxonomic keys.

12(a) Explain briefly about ICBN.

(OR)

12(b) Explain the steps involved in herbarium preparation.

13(a) Describe the characteristic features of the family Annonaceae.

(OR)

13(b) Write the economic importance of Fabaceae.

14(a) Give an account on the taxonomic features of the family Solanaceae.

(OR)

14(b) Explain the floral characteristic features of family Poaceae.

15(a) Name any four fibre yielding plants and give their uses.

(OR)

15(b) Write short notes on *Rauwolfia* and its medicinal uses.

PART- C

Answer any three of the following, each within 1200 words. Draw diagrams wherever necessary.

(3 x 15=45 marks)

16. Write an essay on Bentham and Hooker system of classification.
17. Give a detailed account on cladistics and molecular taxonomy.
18. Explain in detail the characteristics and economic importance of family Cucurbitaceae.
19. Describe the diagnostic features and economic uses of family Acanthaceae.
20. What are essential oils? Give a brief account of its sources, extraction and uses.
