

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FIFTH SEMESTER – APRIL 2018

PB 5517– HERBAL AND ETHANOBOTANY

Date: 07-05-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART A

Answer the following ,each within 50 words only: (10 X 2=20 marks)

1. Differentiate between admixture and inferior quality
2. List two roots you have studied and give two medicinal uses of the same
3. What are elixirs?
4. Define Poultices.
5. Differentiate between Herbaria and Musea
6. Literature as a tool for Ethanobotanical research. Give example
7. What do you mean by In-Situ conservation of plants?
8. What is Sacred Grove?
9. Mention two active principles and medicinal uses of *Andrographis*.
10. What is a Herbal garden?

PART B

Answer the following within 500 words; draw Flowcharts diagrams wherever necessary: (5 x 7 =35)

11 (a). Write a brief account on the methods of adulteration is done during herbal dry preparation.

OR

(b) Explain the various parts of plant used for microscopic evaluation of drugs.

12 .Write a detailed account on active principle and Pharmaceutical properties of

(a). *Coriandrum sativum*

OR

(b) *Ricinus communis*

13. (a) Write short notes on Hydrotherapy and Tinctures

OR

(b) Give the steps involved in the extraction of Resins and Tannins

14. (a) Write about the importance of fieldwork in Ethnobotanical studies

OR

(b) Mention the principles of Ayurveda and Siddha.

15 (a) Write notes on Irulas.

OR

(b) How do tribals diagnose disease? Mention a few tribal medicines and medicinal plants used by them.

PART C

Answer any three of the following ,each within 1200 words, draw diagrams flowcharts wherever necessary: (3 X 15 =45)

16. How is physical evaluation of drug carried out during drug preparation? Add a note on active constituents.

17. Write in detail the medicinal properties, extraction method of active principles and anatomical features of *Azadirachta indica* and *Datura metel*.

18. Write short note on

(a) Alkaloids (b) Extraction of herbal oils (c) Slippery elm slurry & gruel

19. Define Ethnobotany, explain its scope and recent studies of it in India

20. How can one protect the traditional knowledge with the help of IPR? Add a note on the export potential of herbs.
