

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

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

**FIFTH SEMESTER – APRIL 2010**

**PB 5511 - HERBAL AND ETHANOBOTANY**

Date & Time: 29/04/2010 / 1:00 - 4:00 Dept. No.

Max. : 100 Marks

**PART – A (20 MARKS)**

**I. Choose the correct answer.**

**(5 x 1 = 5)**

1. *Eclipta alba* is used in the treatment of  
(a). hypertension (b). Cancer (c). diabetes (d). inflammation
2. Castor oil is widely used as a  
(a). Career oil (b). purgative (c). Diuretic (d). antiseptic
3. Lemon oil is used as  
(a). antiseptic (b). perfume (c). hepatoprotectant (d). antihelminthic
4. Cineole is the chief component of  
(a). Lemon oil (b). peppermint oil (c). clove oil (d). Eucalyptus oil
5. Almond oil is a  
(a). volatile oil (b). essential oil (c). Base oil (d). nonessential oil.

**II. State whether the following are true or false**

**(5 x 1 = 5)**

6. Volatile oils are extracted by sublimation.
7. Ginger is used as carminative and stimulant.
8. Nectar collected from *Datura stramonium* gives poisonous honey.
9. Morphine and Codeine are extracted from *Coriandrum*.
10. ribal population have a well documented herbal medical history.

**III. Complete the following**

**(5 x 1 = 5)**

11. Reserpine has antihypertensive effect resulting from \_\_\_\_\_.
12. Oral anticoagulant inhibits \_\_\_\_\_.
13. Soxhlet apparatus is used for \_\_\_\_\_.
14. Resins are mainly extracted from \_\_\_\_\_.
15. Vincristine is isolated from \_\_\_\_\_.

**IV. Answer the following each within 50 words.**

**(5 x 1 = 5)**

16. Give two examples for hepatoprotectant.
17. What is aromatherapy?
18. What is ontogenetic variation?
19. What is a sitz bath?
20. Who are Todas?

**PART – B**

**Answer the following within 500 words. Draw the diagram whenever necessary. (5 x 7 = 35 marks)**

21. a) Describe the evaluation method in drug analysis.  
[Or]  
b) Write an account on drug adulteration.
22. a) Summarize the medicinal properties of *Andrographis paniculata* and *Ocimum sanctum*.  
[Or]  
b) Describe the Organoleptic study of *Phyllanthus amarus*.
23. a) Write an account on hydrotherapy and its advantages.  
[Or]  
b) Briefly describe the procedure for preparing capsules and elixirs.
24. a) Describe the preparation of Salves and glycerites.  
[Or]  
b) Explain the importance of herbarium & museum in herbal medicine.
25. a) Write an account on tribal economy and governments efforts in tribal welfare.  
[Or]  
b) Mention the intellectual property rights in relation to traditional medicine.

**PART – C**

**Answer any THREE questions. Each answer within 1200 words,  
Draw the diagram wherever necessary.**

**(3 X 15 = 45 marks)**

26. Write about the preparation and storage methods of plant drugs for commercial purpose.
27. Describe the medicinal properties and extraction of phytochemicals from *Azadiracta* and *Vinca rosea*.
28. Briefly describe the various methods of extraction of herbal oils.
29. Write about the importance of ethnobotany in the traditional Indian system of medicine.
30. Explain the importance of tribal knowledge of herbs and their role in community herbal gardens.

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