



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – NOVEMBER 2011

PB 5517/PB 5511/PB 5503 - HERBAL AND ETHANOBOTANY

Date : 04-11-2011

Dept. No.

Max. : 100 Marks

Time : 9:00 - 12:00

PART – A

Answer ALL the questions (20 marks)

I. Choose the correct Answer

(5 x 1 = 5)

- Which one of the following has carminative property
a. *Ricinus communis* b. *Datura metel* c. *Ocimum sanctum* d. *Zingiber officinale*
- Tropane alkaloids present in
a. Neem b. *Andrographis* c. *Datura* d. Coriander
- Which one of the following is non-native medicinal plant
a. *Embllica officinalis* b. *Ocimum sanctum* c. *Zingiber officinale* d. *Ricinus communis*
- Todas live in
a. Palni Hills b. Javadi Hills c. Nilgiri Hills d. Kolli Hills
- PRA is a tool in the study of
a. Ethnobotany b. Extraction of alkaloids c. Drug adulteration d. Drug classification

II. State whether the following statements are true or false

(5 x 1 = 5)

- Diterpene compounds are found in *Andrographis paniculata*.
- Embllica officinalis* is a source of Dasamoola.
- Poultice is applied to relieve sprains.
- Charaka is a Homoeopathic physician .
- Salve is a kind of ointment .

III. Complete the following

(5 x 1 = 5)

- Vascin has _____ property.
- A substance extracted through glycerin is _____.
- Siddhars wrote the medicinal text in _____ language.
- Institutionalized medicinal systems are otherwise known as _____.
- Embllica officinalis* is an ingredient of _____ churanam.

IV. Answer ALL, each within 50 words

(5 x 1 = 5)

- Mention any two reasons for drug adulteration.
- What are tinctures?
- What are the properties of elixir?
- Mention the uses of herbal bath.
- List any three aromatic oils.

PART – B

V. Answer the following each not exceeding 350 words

(5 x 7 = 35)

Draw diagrams wherever necessary.

21. a) Describe the parameters for microscopic evaluation of drugs.

(OR)

b) Differentiate adulterants and substitutes. Discuss adulteration of drugs with two examples.

22. a) Explain the organoleptic properties of *Coraindrum sativum*.

(OR)

b) Discuss the composition and application of any two herbal oils.

23. a) How do we extract alkaloids?

(OR)

b) Write notes on resinous drugs.

24. a) Discuss the importance of herbaria in ethnobotanical research.

(OR)

b) What are the connections between Paliyar medicine and Siddha medicine?

25. a) Mention any two schemes of state forest department for tribal development.

b) What is a community herbal garden? How is it important?

PART – C

VI. Answer any three of the following, each not exceeding 1200 words.

Draw diagrams wherever necessary

(3 x 15 = 45)

26. How do we classify drugs based on morphology, chemistry and properties

27. Write the uses and the phyto chemicals of the following:

Azadirachta indica, *Phyllanthus amarus*, *Ocimum sanctum* and *Vinca rosea*.

28. Discuss the role of traditional knowledge in disease diagnosis, treatment and conservation of medicinal plants.

29. What are the various methods and sources used in ethnobotanical research?

30. Describe the methodology of collections of plants and the preparation of volatile oils.

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