

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – November 2009

PB 5511 - HERBAL AND ETHANOBOTANY

Date & Time: 07/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART - A

I) CHOOSE THE CORRECT ANSWER

(5 X 1 = 5)

1. The active principle in '*Azadirachta*' is
a) Vincristine b) Vascin c) Nimbibin d) Vinblastin
2. One of the following is a rich source of vitamin C
a) *Ocimum* b) *Embllica* c) *Phyllanthus* d) *Lycopersicum*
3. According to ancient literature resources 'Soma; is now identified as
a) *Amanita* b) *Polyporus* c) *Ganoderma* d) *Agaricus*
4. One of the following is not a primary source of information for ethno botany
a) Fieldvisit b) Anthropological method c) Travelogues d) Litterature
5. One of the following is literature of pre-Vedic period
a) Rigveda b) Charaka samhita c) Raj Nighantu d) Sama

II) STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE.

(5 X 1 = 5)

6. Brick powder is one of adulterants.
7. Oleoresin is an active metabolites of *Coriandrum*.
8. Steam distillation technique is used for extraction of Volatile Oils.
9. Drug Plants are classified on the basis of their metabolites.
10. Paliyans are called as nomadic tribals.

III. COMPLETE THE FOLLOWING

(5 X 1 = 5)

11. The active molecules in *Catheranthus roseus* is _____.
12. _____ trichome is one of the microscopic features of drugs.
13. Worshipping of trees among tribals is called _____.
14. The study of medicinal and toxic products from natural plant sources is called _____.
15. Suppositories are _____.

IV) ANSWER ALL IN ABOUT 50 WORDS EACH

(5 X 1 = 5)

16. Herbal oil
17. Poultice
18. Resin
19. Gruel
20. Musea

PART - B

Answer the following each not exceeding 350 words

(5 X 7 = 35 marks)

21. a) What is hydrotherapy? Mention the different types and their advantages
(OR)
b) Write notes on Tonics & Elixirs.
22. a) Mention the biochemical constituent of (i) *Phyllanthus* (ii) *Embila* (iii) Zinger
(iv) *Vinca* (v) *Datura*.
(OR)
b) Explain the Organoleptic Study of *Coriandrum sativum*.
23. a) Write Ethanobotanical study of Todas
(OR)
b) Write Ethanobotanical study of Irulas.
24. a) Explain the various methodologies used in ethanobotanical studies.
(OR)
b) Bring out the role of traditional knowledge in disease diagnosis & treatment
25. a) What are the parameters used in physical and microscopic evaluation of drugs.
(OR)
b) Write a brief account on adulteration

PART - C

Answer any THREE of the following each not exceeding 1200 words

(3 X 15 = 45 marks)

26. Describe the methodology of extraction of Volatile Oils.
27. Write an account on organoleptic study of *Adhatoda vasica*.
28. Comment on the importance of Intellectual property rights on traditional knowledge with examples.
29. Write notes on importance of ethnobotany in Indian System of medicines.
30. Write notes on collection and export potentials of herbal plants.

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