

B. Sc. DEGREE EXAMINATION, NOVEMBER 2019
BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
THIRD SEMESTER

COURSE : MAJOR – CORE
PAPER : PHYTOTHERAPY & ETHNOBOTANY
TIME : 3 HOURS MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS

(18 marks)

I. Choose the correct answer

(5x1=5)

- The elements associated with Pitha are
a) Fire & Air b) Space & Earth c) Air & Earth d) Liquid & Fire
- The useful part of *Catheranthus roseus* is
a) flower b) fruit c) Leaves d) Root
- Karanja oil is extracted from the seeds of the following
a) *Aloe vera*, b) *Datura stramonium*, c) *Piper longum* d) *Pongamia pinnata*
- Chavanaprash is well known for curing the following
a) Cough & Cold b) Cancer c) Heart problems d) Liver tonic
- Aromatherapy is good in improving
a) skin complexion b) nervous disorders c) good vision d) brain function

II. Fill in the Blanks

(5x1=5)

- The Father of Ayurveda medicine is _____.
- A mixture of powdered herbs is called _____.
- Tylophora asthmatica* belongs to the family _____.
- The active compound found in *Datura* is _____
- The Irula Tribes belongs to _____ ethnic group

III. State whether True or False

(4x1=4)

- Agasthiyar is the Father of Siddha.
- There are seven dhatus in our body.
- Honey collection is the major livelihood of Irulas.
- The roots of *Catheranthu roseus* cures blood cancer.

IV. Match the following

(4x1=4)

- | | |
|---------------------------------|---------------|
| 15. <i>Rauwolfia serpentine</i> | Nimbidin |
| 16. <i>Azadirachta indica</i> | Tylophorine |
| 17. <i>Tylophora asthmatica</i> | Ajmalicine |
| 18. <i>Terminalia chebula</i> | Anthroquinone |

V Answer any six in 50 words. Each answer should not exceed 50 words.

(6x3=18)

19. National Institute of Siddha (NIS)
20. Arishtam
21. Adulteration
22. Agni
23. Dry Ginger
24. Uses of *Curcuma longa*
25. Scope of Ethnobotany
26. Intellectual Property Rights
27. Eucalyptus oil

SECTION – B

ANSWER ANY FOUR QUESTIONS IN 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:

(4x6=24)

28. Give a brief account on Panchabhutas
29. What are the basic principles of Ayurveda?
30. Write an account on a bark used in medicine studied by you.
31. What is ethnobotanical research? Bring out its methods.
32. Give an account on *Eclipta alba*
33. Discuss the *Ex-situ* Conservation of medicinal Plants

SECTION – C

ANSWER ANY TWO QUESTIONS IN 1000 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:

(2x20=40)

34. Write an elaborate note on the various drug preparations like ashwam, thailam, leghiyam, basmam and decoction and explain with one example.
35. Write an essay on Methods of Ethnobotanical Research - Fieldwork, Literature, Herbaria and Musea.
36. List the active principles, scientific name, family and medicinal uses of *Asparagus racemosus* and *Rauwolfia serpentina*.
37. Discuss the role of Essential Oils in Aroma Therapy.
