

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2019 – 2020 & thereafter)

B. Sc. DEGREE EXAMINATION, NOVEMBER 2023
BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
THIRD SEMESTER

COURSE : MAJOR – CORE
PAPER : PHYTOTHERAPY AND ETHNOBOTANY
SUBJECT CODE : 19BT/MC/PE33
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS (18x1=18 marks)
I. CHOOSE THE CORRECT ANSWER (5x1=5)

- _____ is considered as father of Siddha
(a) Agasthiyar (b) Charaka
(c) Sushruta (d) Valmiki
- Which of the following plants is NOT commonly used in Ethnobotanical practices in India?
(a) *Rauwolfia serpentine* (b) *Azadirachta indica*
(c) *Aloe vera* (d) *Oryza sativa*
- The term Ethnobotany was first coined by _____
(a) Sir Alexander Fleming (b) John W. Harshberger
(c) C.J. Alexopoulos (d) D. J.W Webste
- _____ are protected by tribal communities due to religious sanctity accorded to them.
(a) Dry Forest (b) Rain Forest
(c) Dense Forest (d) Sacred Forest
- Essential oils are also known as _____
(a) Volatile oils (b) Beneficial oils
(c) Clove oil (d) All of the above

II. FILL IN THE BLANKS (5x1=5)

- Ayurvedic pills or tablets are called _____.
- Hibiscus rosa-sinensis* belongs to _____ family
- _____ are dried plant materials which serve as a quick referral system in plant taxonomy as well as ethnobotany
- The protection and conservation of species in their natural habitat is called as _____
- Essential oils contain _____

III. STATE WHETHER TRUE OR FALSE (3x1=3)

- According to Ayurveda medicine the *Tridoshas* are Vata, Pitta and Rog.
- Siddha medicine is one of the oldest traditional systems of medicine practiced in South India.
- Irulas* are one of India's oldest indigenous communities and their knowledge of snakes and snake venom is legendary.

IV. MATCH THE FOLLOWING**(5x1=5)**

- | | | |
|----------------------------|---|-----------------------|
| 14. Kasayam | - | Respiratory infection |
| 15. <i>Piper longum</i> | - | Decoction |
| 16. Ethnobotanical surveys | - | Botanical gardens |
| 17. Ex- situ Conservation | - | Hair care herbal |
| 18. Kesavardhini | - | Questionnaires |

V. ANSWER ANY SIX IN 50 WORDS.**(Each answer should not exceed 50 words.)****(6x3=18)**

19. Leghyam
20. Taila
21. *Zingiber officinalis*
22. *Cinnamomun zeylanicum*
23. Ethnobotany
24. Bioprospection
25. Biopiracy
26. Siddha medicine
27. Aromatherapy

SECTION – B**ANSWER ANY FOUR QUESTIONS IN 200 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:****(4x6=24)**

28. Write a note on *Panchamahabhuta*.
29. Highlight the medicinal uses of *Aloe vera*.
30. Summarise the *Pankajakasturi Choornam*
31. Comment on the traditional medicinal practices of *Irulas*.
32. Write in detail about the role of dhatu in physical beauty.
33. Briefly discuss about the herbal tea

SECTION – C**ANSWER ANY TWO QUESTIONS IN 1000 WORDS EACH. DRAW DIAGRAMS WHEREVER NECESSARY:****(2x20=40)**

34. Write an elaborate account on adulteration and standardization of herbal drugs.
35. Write an essay on organoleptic studies of *Rauwolfia serpentina* and *Azadirachta indica*.
36. Elucidate the research methodology in relation to ethnobotanical studies.
37. What are the two major types of biodiversity conservation measures? Explain it with suitable examples.
