

B. SC. DEGREE (C.B.C.S.S) EXAMINATION, MARCH 2018
(2015 Admission Regular)
SEMESTER VI - CORE (BOTANY)
BO6B13TB - PHYTOCHEMISTRY AND PHARMACOGNOSY

Time : 3 Hours

Maximum Marks : 80

Part A**I. Answer all questions. Each question carries 1 marks**

1. Expand TLC .
2. Name a triterpenoid .
3. Name any one ayurvedic formulation using Aegle marmelos .
4. Which is the enzyme present in Carica papaya ?
5. Mention any one medicinal property of Andrographis paniculata .
6. What are vein islets ?

(6x1=6)

Part B**II. Answer any Seven questions. Each question carries 2 marks**

7. What is meant by IR spectra ?
8. Describe chemical drug evaluation .
9. Write a short note on the pharmacological uses of anthraquinones .
10. Give any two pharmacological uses of coumarins .
11. Explain the habit and habitat of Withania somnifera .
12. Name the officinal part of Phyllanthus amarus and Datura stramonium .
13. Enlist the medicinal uses of Carica papaya .
14. Distinguish between organized drugs and unorganized drugs .
15. Give an account on the active principles and medicinal properties of Piper longum .
16. Describe volatile oil extraction using phytonic process .

(7x2=14)

Part C**III. Answer any Five questions. Each question carries 6 marks**

17. Explain the structure and properties of benzoquinones
18. Describe the structure and pharmacological uses of naphthoquinones .
19. Explain the phytochemistry of Plumbago rosea, Adhatoda vasica and Withania somnifera .
20. Describe the chemical evaluation of the officinal part of Kaempferia galanga, Sida acuta, Carica papaya and Azadirachta indica .
21. Explain the anatomical evaluation of the officinal part of Aloe vera, Tylophora indica and Acorus calamus .
22. Give an account on the cultivation practices and medicinal uses of Andrographis paniculata .
23. Describe the cultivation practices and medicinal properties of the active principles in Vinca rosea .
24. Give an account on the medicinal properties and active principles of Santalum album and Syzgium zeylanicum .

(5x6=30)

Part D**IV. Answer any Two questions. Each question carries 15 marks**

25. Give an account on the different defense mechanisms existing in the plant world using suitable examples .
26. Describe the organoleptic and anatomical evaluation of the officinal part of the following plants. Mention the family of each of them a. Tinospora cordifolia b. Tylophora indica c. Datura stramonium
27. Explain the cultivation practices, active principles and medicinal properties of the following plants : a. Vinca rosea b. Andrographis paniculata c. Bacopa monneiri
28. Explain the chemical and pharmacological classification of crude drugs .

(2x15=30)