



25020679

QP CODE: 25020679

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE  
EXAMINATIONS, FEBRUARY 2025**

**Sixth Semester**

**CHOICE BASED CORE COURSE - BO6CBT03 - PHYTOCHEMISTRY AND  
PHARMACOGNOSY**

Common for B.Sc Botany Model I, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany Model II Plant Biotechnology & B.Sc Botany and Biotechnology Model III Double Main

2017 Admission Onwards

1E65C249

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What are the microscopic approaches to study drug and aromatic plants?
2. What are Indole alkaloids? Give its chemical structure.
3. Explain the properties of naphthoquinones.
4. Name four chemical constituents of Carica papaya.
5. Name two ayurvedic formulations with Withania somnifera and its uses.
6. Name four chemical constituents of Asparagus racemosus.
7. What is the systematic position of Datura stramonium? What are its medicinal uses?
8. Name two ayurvedic formulations with Tylophora indica.
9. What are the major essential oils extracted from Eucalyptus?
10. What are the chemical constituents of Cynopogon?
11. Explain the starch grains of Potato and wheat.
12. Explain with examples the drug discoveries based on ethnopharmacological approach.

(10×2=20)





### Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Explain the principle and applications of chromatography in phytochemical extraction.
14. Explain the occurrence and structure of Phenols.
15. Differentiate between Quinines and Coumarins.
16. Describe the morphological features of Tinospora.
17. Name and describe the action of the ayurvedic formulations containing Punica granatum.
18. Describe major pharmacological action of plant drugs and ayurvedic formulations made using Phyllanthus neruri.
19. Explain different methods of extraction from Vetiveria zizanoides.
20. What are the process by which we can Volatile oils from Mentha piperita?
21. Distinguish between the starch grains of potato and curcuma.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Describe the various extraction methods in phytochemistry.
23. Explain the properties, occurrence, classification, functions and pharmacological uses of Terpenoids.
24. Explain the Morphology of useful part, Chemical evaluation of the officinal part, phytochemistry and the major Ayurvedic formulations using the plant Carica papaya.
25. Give an account of the chemical composition, mode of extraction and uses of Santalum oil.

(2×15=30)

