

# CBCS SCHEME

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18BT642

## Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Phytochemistry and Phytohormones

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions, choosing ONE full question from each module.**

### Module-1

- 1 a. Give an account of Insecticide and Rodenticide derived from plant sources. (10 Marks)  
b. With examples, explain Industrially important plant products. (10 Marks)

OR

- 2 a. Give an account and Fiber yielding plants. (10 Marks)  
b. Explain the Economically important plant products of forest origin. (10 Marks)

### Module-2

- 3 a. Give an account of various methods of extraction. (10 Marks)  
b. What is Super critical fluid extraction? Add a note on various methods of solvent recovery. (10 Marks)

OR

- 4 a. Elaborate the process of Hot continuous extraction process. (10 Marks)  
b. Write a note on :  
i) Microwave Assisted Extraction ii) Super Critical Fluid Extraction. (10 Marks)

### Module-3

- 5 a. What is Shikimate Chorismate pathway? Explain the various metabolites derived in this pathway. (10 Marks)  
b. With the help of Mavalonic acid pathway, explain the pathway of Flavonols and Flavones. (10 Marks)

OR

- 6 a. Discuss the pathway of Alkanes and related hydrocarbons. (10 Marks)  
b. Explain the pathway of Steroids and Carotenoids. (10 Marks)

### Module-4

- 7 a. Explain the physiological effects of Auxin and add a note on Auxin receptors. (10 Marks)  
b. Elaborate the Biosynthesis and Gibberlin and add a note on its Metabolism. (10 Marks)

OR

- 8 Explain :  
a. Auxin Physiological Function. (06 Marks)  
b. Signal transduction pathway and Auxin. (06 Marks)  
c. Biosynthesis and Gibberlin . (08 Marks)

### Module-5

- 9 a. Explain the biological role of Cytokines and add a note on its Biosynthesis. (10 Marks)  
b. Elaborate the Cellular and Molecular mode of Ethylene action. (10 Marks)

OR

- 10 Explain the following :  
a. Cytokinin Metabolism. (08 Marks)  
b. Physiological effect of Ethylene. (06 Marks)  
c. Physiological effects of ABA. (06 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.