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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)