

Medicinal Plant Cultivation and Biotechnology

(Revised Scheme 4)

Q.P. CODE: 9386

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

1. Explain the methods of pest control and disease management of medicinal and aromatic plants in detail.
2. Explain various techniques of isolation and fusion of protoplasts. Write the applications of protoplast culture.
3. Explain the production and applications of transgenic plants in detail.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Explain the technology required for commercial scale cultivation of medicinal and aromatic plants.
5. Explain the method of cultivation and post harvest care of Ginkgo.
6. Write the different types and ideal properties of enzyme reactors.
7. Discuss the national and international trade in medicinal and aromatic plants. Add a note on export potentials of phytopharmaceuticals.
8. Explain chromosome analysis and identification.
9. Explain Hairy root culture and its application in production of secondary metabolites

SHORT NOTES

2 X 5 = 10 Marks

10. What is embryo culture? Write its applications.
11. Write the advances in plant stem cell research.

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