



[Time: 3 Hours]

[Max. Marks: 75]

Advanced Pharmacognosy-II

Q.P. CODE: 5174

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

LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

1. Explain the efficacy and safety of herbal medicine products.
2. Describe the different types of adulteration/substitution of herbal drugs. Add a note on determination of foreign organic matter in herbal drugs.
3. Define ethnobotany. Discuss the role of ethnobotany in drug development.
4. Explain the *in-vitro* and *in vivo* evaluation techniques of anticancer herbal drugs.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Write a note on new development in herbal drugs.
6. Describe the analytical profile of *Andrographis paniculata*.
7. Write a note on *in vivo* evaluation of herbal drugs for cardioprotective activity.
8. Write a note on determination of microbial contamination in herbal formulations.
9. What are the advantages and disadvantages of DNA fingerprinting techniques in identifying herbal drugs?
10. Write a note on Bioprospecting and Biopiracy.
11. Describe the analytical profile of *Boswellia serata*.
12. How is reverse pharmacology valuable in drug discovery? Explain.
13. Describe the analytical profile of *Coleus forskholii*.
14. Explain the assessment of efficacy of herbal medicinal products.

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