

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

LONG ESSAY (Answer any TWO)**2 X 20 = 40 Marks**

1. Write a detailed note on the application of pharmaceutical concept, analytical methods and clinical evaluation techniques in herbal based industries.
2. Discuss the principle and procedure involved in the isolation and estimation of Curcumin and L-Dopa.
3. Explain the Indian and International patent laws and amendments applicable to natural products.

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Write an account on ISO – 9000 and TQM.
5. Give the analytical profiles for *Tribulus terrestris* and *Withania somnifera*.
6. Explain the method of isolation and estimation of secondary metabolites from *Glycyrrhiza glabra*.
7. Write a note on preparation and standardization of herbal skin care creams and anti-perspirants.
8. Study of traditional formulations and their standardization as per Ayurvedic Formulary of India.
9. Explain the importance of medicinal and aromatic plants in the national and international economy.

SHORT NOTES**2 X 5 = 10 Marks**

10. Physicochemical parameters of herbal formulations, physico – chemical
11. Hydrophilic colloids

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