

**Industrial Pharmacognosy****(Revised Scheme 4)****Q.P. CODE: 9385**

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 preparation and evaluation of Herbal Shampoo and Hair dye.
2. Illustrate the structural elucidation of Quercetin with suitable example. Explain the test for flavonoids.
3. Explain the methods of isolation and estimation of Guggulsterone and Curcumin.

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

4. Shelf life study protocol for herbal products
5. Indian and International Patent laws
6. Deodorants preparations and evaluation
7. Quality control aspects of multi-component classical Ayurvedic formulations by HPTLC/HPLC finger printing
8. Central and state regulatory bodies for Indian drug regulatory authorities
9. Types of Nano herbal formulations and its standardization

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

10. Regulatory requirements under USFDA
11. Perfumes from herbal origin

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