



[Time: 3 Hours]

[Max. Marks: 100]

**INDUSTRIAL PHARMACOGNOSY**

**(Revised Scheme 2)**

**Q.P. CODE : 9213**

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. Give a detailed account on herbal formulations and their standardization protocols.
2. Discuss the principle and procedure involved in the isolation and estimation of Vasicine and Forskolin.
3. Write essay on general methods of separation, identification and estimation of phytoconstituents

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Give an account on ISO -9000 and HACCP.
5. Give the analytical profiles for *Garcinia cambogia* and *Gymnema sylvestre*
6. Explain the herbal raw materials used in cosmetics.
7. Explain the importance of medicinal and aromatic plants in the international economy.
8. Give the method of isolation and estimation of secondary metabolites from *Tinospora cordifolia*.
9. Write a note on factors affecting quality of herbs.

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Explain physio - chemical properties useful in the assessment of herbal formulations
11. Standardized herbal extracts.

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