Total No. of Questions : 4]

SEAT No. :

P3971

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M. Pharmacy (Semester - I) **ADVANCED PHARMACOGNOSY** (2013 Pattern) (Credit System)

Time : 3 Hours] Instructions to the candidate :

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Figures to the right indicate the full marks.
- **Q1**) Briefly describe biogenetic pathway for flavonoids and flavolignans. [10]
- Q2) Answer the following (any three)
 - Explain polyketids pathways for anthraquinones. a)
 - Explain difficulties for formulations of herbal formulations and remedies. b)
 - Explain modern drug discovery with Taxol. c)
 - d) Describe ethnobotanical approach for drug discovery.
- Q3) Short Notes (any three)
 - a) Withania Alkaloids
 - b) **Biogenesis of coumarins**
 - Herbal syrups c)
 - Nutraceutical powders/ granules d)

Q4) Elaborate rational use of secondary metabolites as medicinal compounds.[10]

OR

Explain in detail HIS with selection strategies, sample preparation and test with recent case studies.



[Max. Marks : 50

[15]

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[15]