

September 2009

[KV 338]

Sub. Code: 2874

M.PHARM. DEGREE EXAMINATION

(Regulations 2006)

Candidates admitted from 2006-2007 onwards

FIRST YEAR

Branch VIII – PHYTOPHARMACY AND PHYTOMEDICINE

**Paper III – HERBAL DRUG DEVELOPMENT AND
STANDARDISATION**

Q.P. Code : 262874

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. a) Write an essay on the protocol for fractionation of a root drug for isolation of various secondary metabolites.
b) Discuss the principle, merits and demerits of supercritical fluid extraction.
2. a) Discuss the principles of development of fingerprint profile of standardized herbal extracts.
b) Discuss the OECD guidelines for determination of acute toxicity of plant drugs.
3. a) Explain the principle behind the isolation and estimation of catechine from green tea.
b) Discuss the isolation and estimation of piperine by HPLC.

II. Write Short Notes :

(8 x 5 = 40)

1. Documentation requirements in quality control of botanicals.
2. WHO definitions for herbs, herbal materials, herbal preparations, finished herbal products. Therapeutic activity and active ingredients.
3. Herbal shampoos.
4. Isolation of bitter lactones from andrographis.
5. Recovery of solvents from extracts.
6. Merits and demerits of artificial drying.
7. Disc diffusion and serial dilution.
8. Storage requirements for crude drugs.
