

March 2009

[KU 337]

Sub. Code: 2873

M.PHARM. DEGREE EXAMINATION

(Regulations 2006)

Candidates admitted from 2006-2007 onwards

FIRST YEAR

Branch VIII – PHYTOPHARMACY AND PHYTOMEDICINE

Paper II – ADVANCED PHARMACOGNOSY

Q.P. Code : 262873

Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions : (3 x 20 = 60)

1. Describe in vivo methods of screening for antidiabetic drugs and immunomodulatory drugs.
2. Explain the production of secondary plant metabolites by fermentation technology and add a note on the production of ergot alkaloids.
3. Discuss the biosynthesis, general methods of isolation and methods of analysis of flavanoids.

II. Write Short Notes : (8 x 5 = 40)

1. Role of biomarkers in crude drug analysis.
2. Chemotaxonomy.
3. Pest control techniques.
4. Plant growth regulators.
5. International trade of herbal drugs.
6. Microscopical evaluation of herbal drugs.
7. Pharmacological classification of herbal drugs.
8. Flavoring agents.

September 2009

[KV 337]

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Time : Three hours

Maximum : 100 marks

Answer All questions

I. Essay Questions :

(3 x 20 = 60)

1. a) Outline laboratory requirements for the cultivation of plant cells.
b) Discuss the common protocols of suspension culture and explain its utility in the elaboration of a secondary metabolite of commercial significance.
2. a) Classify alkaloids based on amino acid precursors.
b) Explain with the schematic pathway and the biogenetic origin of alkaloids derived from ornithine.
3. a) Present a brief review of indigenous drugs with anticancer property.
b) describe the contributions of phytochemical research to chemotaxonomy.

II. Write Short Notes :

(8 x 5 = 40)

1. Applications of cell division hormones.
2. Fermentative production of plant secondary metabolites.
3. Methods of isolation and analysis of polysaccharides.
4. Characterization of composition of volatile oils.
5. Hypolipidemic plant drugs.
6. Mechanism of anti inflammatory activity of flavonoids.
7. Role of bio markers in crude drug analysis.
8. Biological methods of pest control.
