

[KQ 337] MARCH 2007 Sub. Code : 2873

M.Pharm. DEGREE EXAMINATION.

(Regulations 2006)

First Year

Branch VIII — Phytopharmacy and Phytomedicine

Paper II — ADVANCED PHARMACOGNOSY

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. Explain chemistry, biosynthesis, general methods of isolation and analysis of alkaloids. (20)

2. Define plant tissue culture and culture media. Classify different plant tissue culture techniques and discuss briefly industrial applications of tissue culture. (15)

3. (a) Discuss the pharmacological screening of Anti-cancer drugs.

(b) Explain the role of pharmacognosy in herbal industry. (15)

II. Short notes : (6 × 5 = 30)

1. What do you understand by Ethnobotany And Chemotaxonomy?

2. Define fermentation, and discuss briefly design and operation of industrial fermentors.

3. Discuss briefly plant growth regulators.

4. Explain good agricultural practices in cultivation.

5. Discuss the classification of herbal drugs with special importance to chemotaxonomy.

6. Explain the quality control of herbal drugs with reference to WHO guide line.

SEPTEMBER 2007

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Theory : 80 marks

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Answer ALL questions.

I. Long Essay :

(1) Describe the role of Pharmacognosy in the herbal industry. (20)

(2) Elaborate on the principles of phytochemical study of glycosides. (15)

(3) (a) Describe the basic chemistry and biosynthesis of Flavanoids.

(b) Give the general methods of isolation and methods of analysis of Carbohydrates. (15)

II. Short notes :

(6 × 5 = 30)

(1) Classify herbal drugs with examples.

(2) Write a note on chemotaxonomy.

(3) Comment upon the international trade of herbal drugs.

(4) Give a brief review on problems encountered in maintenance of quality of crude drugs.

(5) Comment upon good practices in cultivation.

(6) Describe the role of plant growth regulators.