

APRIL 2003

[KI 311]

Sub. Code : 1031

(For candidates admitted from 2001-2002 onwards)

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch VIII — Phytopharmacy and Phytomedicine

Paper II — ADVANCED PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. (a) What are the pharmacopoeal methods of evaluation of crude drugs? (13)
- (b) What are plant growth regulators? What are its uses in improving the yield of active constituents in medicinal plants? (12)
2. Write in detail the Chemistry of
  - (a) Atropine. (13)
  - (b) Vinblastine. (12)

3. Briefly describe the different methods of estimation of

(a) Morphine. (13)

(b) Penicillin. (12)

4. Briefly discuss the present status of herbal drug industry and its export potential. (25)

**OCTOBER 2003**

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**Paper II — ADVANCED PHARMACOGNOSY**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. (a) What are pharmacopoeal standards of crude drugs? Explain with suitable examples. (13)  
(b) Briefly describe the uses of plant growth hormones. (12)
2. (a) What are the basic metabolic pathways leading to the production of secondary metabolites. (13)  
(b) Design an industrial Fermentor suitable for the production of penicillin. (12)
3. (a) What are the nutrients essential for the production of plant tissues culture. (13)  
(b) Describe the biogenetic pathway of reserpine and digoxin. (12)

4. Write short notes on :

- (a) Tracer techniques (6)
- (b) Chemotaxonomy (6)
- (c) Immobilized enzymes (6)
- (d) Assay of atropine. (7)