FEBRUARY 2005

[KM 311] **Sub. Code : 1031**

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch VIII — Phytopharmacy and Phytomedicine

Paper II — ADVANCED PHARMACOGNOSY

(For candidates admitted from the year 2001–2002 onwards)

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and forty minutes Sec. A & B : 80 marks

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

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

1. Discuss the role of auxins of gibberillins on pattern of growth and growth Kinetics in medicinal plants.

2. Describe the isolation and estimation of Sennosides.

SECTION B — (10 × 5 = 50 marks)

3. Classification of crude drugs.

4. Immobilized enzymes.

5. Herbal cosmetics.

6. Importance of medicinal plants in herbal drug industry.

7. Biosynthesis of Cholesterol.

8. Yeast.

9. Pharmacognostic Evaluation.

10. Production of Dextrose from starch.

11. Quantitative microscopy.

12. Biosynthesis of morphine.

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AUGUST 2005

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(For candidates admitted from the year 2001–2002 onwards)

Time : Three hours — Maximum : 100 marks

Theory : Two hours and forty minutes — Theory : 80 marks

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

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Describe the basic metabolic pathways. Discuss the chemistry and biosynthesis of morphin and digoxin. Write a brief note on isolation and estimation of sennosides. (5 + 5 + 5)

2. Write a note on application of plant tissue culture in herbel drug development. Discuss the importance of orgenogenesis and totipotency in phytobiotechnology. (7 + 8)

II. Short notes : (10 × 5 = 50)

1. Write a note on nutraceuticals with example.

2. Explain the significance of serotaxonomy.

3. Explain the importance of growth kinetics.

4. Discuss the use of nutrients and minerals supplements in drug improvement.

5. Outline briefly the W.H.O. guidelines of standardization of formulation. (Herbel).

6. Outline the biosynthesis of cholesterol.

7. Describe briefly the production of penicillin.

8. Write a note on growth regulator.

9. Write a briefly note on H.P.T.L.C.

10. Explain the DNA hybridization technique in chemotaxonomy.