MR–604  Seat No._______
First Year Dip. in Pharmacy (Part-I) Examination
May / June – 2003
Pharmacognosy
(New Course)

Time : 3 Hours] [Total Marks : 100

Instructions : (1) Answers to both sections should be written in separate answer books.
(2) Write three questions from each section.
(3) Draw arronated diagrams wherever necessary.

SECTION - I

1 Define and classify alkaloids. Discuss a method to isolate alkaloids from crude drug. Write any two chemical tests for identifying alkaloids in crude drugs.

2 Write short notes on (any three):
(a) Chaulmoogra oil
(b) Biological importance of tannins
(c) Solanaceous drugs.
(d) Anticancer drugs.

3 Define and classify volatile oils. Discuss expression methods of isolating volatile oils from crude drugs.

4 Differentiate between the following pairs (any three):
(a) Tinivilly senna and Dog senna
(b) Rauwolfia serpentina and Rauwolfia canascence
(c) Indian tramgacanth and Persian tragacanth
(d) Anethum sowa and Anethum graveolens.

5 Write B.S, family, chemical constituents and specific medicinal use of any four of the following drugs:
(1) Ergot
(2) Isphaghula
(3) Pyrethrum
(4) Lemongrass oil
(5) Garlic
(6) Guggul.

MR–604] 1 [Contd...
SECTION - II

1. Define Pharmacognosy and crude drugs. Describe various systems of classifying crude drugs with their advantages and disadvantages.

2. Write short notes on: (any three)
   (a) Accidental adulteration
   (b) Vitamins
   (c) Antidiabetic drugs
   (d) Chemical evaluation of crude drugs.

3. Discuss Pharmacognosy of “Digitalis leaves”.

4. Define and classify glycosides. Discuss a method of extraction of glycosides from crude drugs. Write the chemical test to identify glycosides present in crude drugs.

5. Describe the following chemical tests and state the crude drugs which give this test positive (any four):
   (a) Umbelliferone test
   (b) Van Urk’s reaction
   (c) Goldbeater’s skin test
   (d) Grignard reaction
   (e) Gambir fluorescin test.