

MR-604

Seat No. _____

First Year Dip. in Pharmacy (Part-I) Examination

May/June - 2003

Pharmacognosy

(New Course)

Time : Hours]

[Total Marks :

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) Tinivelly 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.

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.
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