

University of Mansoura
Faculty of Pharmacy
Dept. of Pharmacognosy

بسم الله الرحمن الرحيم
(First term exam)

First Year Exam
Pharmacognosy
Jan. 5th, 2009

وضح اجاباتك بالرسم كلما أمكن ذلك (Total 80 marks)

Q-1 : 1. Constipation 2. Jaundice 3. Heart disease 4. Miosis
5. Glaucoma 6. Urinary tract infection 7. Vertigo 8. local anaesthetic
(20 marks)

- A. Give an example of a leave drug used for treatment of each of the above mentioned conditions. (4 points)
B. Give the botanical origin of drug 2, 5, 7, and 8. (4 points)
C. Give detailed chemical test(s) for 1, 3, and 5. (6 points)
D. Draw the epidermal cells of 3, 6, and 8. (6 points)

Q-2 : Answer the following: (20 marks)

- a) Draw the key elements for identification of powdered *H. muticus* and *Buchu* leaves. (4 points)
b) Draw the epidermal cells of senna and mentha leaves powder. (4 points)
c) Write a specific chemical test for Tea, Henna, and Belladonna leaves (6 points)
d) Draw a labeled TS diagram of Coca Leaf. (3 points)
e) Mention the main active constituents of *Digitalis purpurea*. (3 points)

Q-3 : Give a satisfactory answer for each of the following: (15 marks)

1. Camphoraceous odour of Buchu is due to presence of..... (1 points)
2. Ginko leaves belongs to family..... and used for..... (2 points)
3. Admixture means..... (2 points)
4. Aquous solution of KOH gives.....colour with Buchu andcolour with senna . (2 points)
5. I2/H2O gives purple/red colour with.....and yellow with..... (2 points)
6. Draw the vein islets of each of Hyoscymus and Stramonium leaves. (2 points)
7. Draw each of Clavat, and labiaceous hairs. (2 points)
8. In a table write the microscopical differences between Alexandrian and Indian Senna leaflets. (2 points)

Q-4 : Match the correspondence in the three following columns: (15 marks)

- | | | |
|----------------------|--------------------|-----------------------|
| I. Borntrager's test | a. Boldo | 1. labiaceous hairs |
| II. D. stramonium | b. Scrophloreacea | 2. CNS stimulant |
| III. Stellat hair | c. Senna | 3. medriatic alkaloid |
| IV. Mentha | d. Sphaerocrystals | 4. Buchu |
| V. Diosmin | e. menthol | 5. Monimiaceae |
| | f. CaOx clusters | 6. Anthraquinone |
| | g. helch's test | 7. Cardiotonic |

باقي الأسئلة بالخلف من فضلك

Q-5 :

(10 marks)

A. Differentiate between each pair of the following as indicated

- ✓ 1. Cotton and wool (ignition test)
- ✓ 2. Kaolin and talc (Methylene blue)
- ✓ 3. Potato and maize starches (Draw only)

B. Complete the following:

- ✓ 1. Kamala contains.....a.....derivatives known asb.....andc.....
- ✓ 2. Diatoms are.....a.....plants belongs tob....., they are classified intoc..... andd.....forms.
- ✓ 3. Starch molecule is composed of.....a.....andb.... which arec.....of.....d.....units.
- ✓ 4. Lycopodium powder is thea.....of the common clubmoss.....b...
...family.....c....., it is used as standard reference ind.....
- ✓ 5. Bentonite is formed by....a....., while kaolin is formed by.....b.....
- ✓ 6. Sericin isa....in nature, it forms the coat of theb....., it is soluble in.....c.....and is stained red with.....d.... reagent.
- ✓ 7. Cotton trichome isa....hair, its shape is....b....when young and isc.....when mature. It is covered withd.....cuticle.

أطيب التمنيات بالتوفيق والنجاح

تعقد الامتحانات الشفهية بعد امتحان النظرى مباشرة