

FACULTY OF PHARMACY DEPARTMENT OF PHARMACOGNOSY



FINALTERM EXAMINATION FOR SECOND YEAR CLINICAL STUDENTS

COURSE CODE: PG303 Phamacognosy-2
TOTAL ASSESSMENT MARKS: 50 COURSE TITLE: TIME ALLOWED: 2 HOURS TERM: FIRST 03/01/2014

The exam booklet consists of 8 pages. Answers outside the specific spaces will NOT be considered.

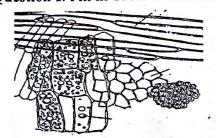
PART I (Seeds & Fruits):

(20 marks) (45 minutes)

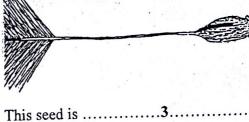
Question I: Fill in Table A with the answers of the following:

(45 minutes)

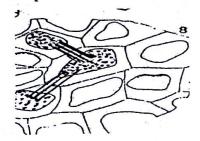
(20 marks)



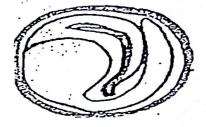
This is.....1...... which presents in2.....



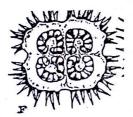
and the outgrowth is4.....



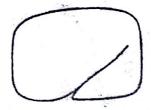
This key element is5...... and presents in6.....



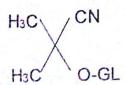
example is8....seeds



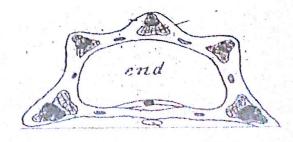
The type of fruit is9..... Example10......



This is L.S. of11..... Type of embryo is12......



This is the structure of13...... which presents in14.....



which is a member of Family16......

No

2

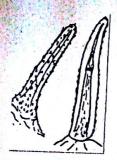
3

1

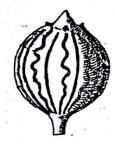
1

1

1



This is17	
presents in18	
which has another key	element
19	



This is dorsal view of25....... which is recently used as....26....



The poisoning symptoms from this fruit are ...29..... and30..... It contains alkaloids named ...31... and ...32...

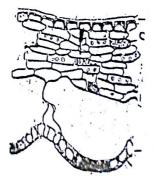


This is a ...36.....
The fruit type is37....
and main active constituent is



	This is	20	
	presents in2	21,	22
,	23	and	24







This is a T. cut in fruit named...39...
The toxicity of this fruit is due to an active constituent named40.

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T	able A	- Louis			150,000
No.		Answer		No.		An	swer	
1		9	14.0 ·	21			4.62	4. 1.
2				22	1977			
3				23				
4	4	#G *		24		* \$2.5 d		
5				25				
6				26		14.2		
7				27	espesie je			
8				28				
9				29				
10				30				n easy
11				31				
12				32				
13				33		. 170		
14		·		34				
15		12 2		35				
16				36				
17				37				
18	1.7			38		*		
19				39				
20				40				

Part II (Subterranean and Unorganized):

(75 minutes) (30 marks) (15 minutes) (7.5 marks)

Question No. 1:

Write the letter (T) to the correct answer, and the letter (F) to the false one correct the false one by putting line under the false word(s) and write the correct answer in the specific

No	The statements	Correct word	Letter
1			16
•	irregularly scattered in the pith.		
2	Figure No. 1 is the anomalous structure in Ipecacuanha.		
3	Liquorice is contraindicated in pregnant women, diabetics and those with high blood pressure.		
4	Figure No.2 is the T- cut in calumba roots.		
5	Podophyllum is used for the treatment of rheumatoid arthritis as a paint.		
6	Figure No. 3 is the main key element of male fern rhizome.		
7	Prolonged use of anthraquinones causes electrolyte imbalances with hyperkalemia.		
3	Figure No.4 is the key element of podophyllum.		
9	Both aconite and Ipecacuanha contain isoquinoline alkaloids.		
0	The bitter properties of the calumba are attributed to the		
	herb's calumbin, and palmarin and, to some smaller		
	degree, to the columbamine, jateorhizine and palmatine		
	present in the herb.		
1	In <i>Ipomea purge</i> , the cells formed by 3ry cambium		
	activity are phloem outside and xylem inside.		
2	Powder + HCl + KClO4 give red color this test is		
	specific for aloe-emodin.		
3	Senegin II is a flavonoid glycosides used as stimulant		
	expectorant in chronic bronchitis.		
	The vascular bundles in American podophyllum are		
	from 9-18 radially elongated.		
,	An example of monocotyledonous horizontal rhizomes		
j	s ginger which is used in treatment of motion sickness.		



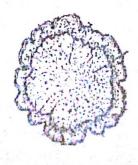






Figure No.2

Figure No.3

etter

Ouestion No. 2: Compare between each of the following Table (2):

(8 marks) (20 minutes)

Compared items	American Podophyllum	Indian Podophyllum		
5% copper acetate solution				
Compared items	Aconite	Filix mas		
Toxicity				
Compared items		Car Dichted Control		
Part used				
Compared items	Fermented Gentian root	Unfermented Gentian root		
Active constituents				
Compared items	Pale Catechu	Black Catechu		
Test for differentiation				
Compared items	Agar	Gelatin		
N/50 Iodine		# 1		
Compared items	Gum arabic	Gum tragacanth		
xidase enzyme test				
Compared items	Маппа	Cod liver oil		
Ises				



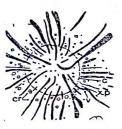
This is the key element of(17).....

- When the T.S. is treated with ...(18)..... the walls of both the sclerenchymatous cells and vessels change from yellow to(19)....
- It is effective in preventing infections of the digestive system since(20).....



- It is used as....(22)...

This is the key element of(21)......



- 10%Alc. furfural + dps. H_2SO_4 + little powder \rightarrow bluishviolet color, this test is specific for ... (24)....

This is(23).....



- The active constituents of the opposite figure are......(25)......

Chemical tests:

1-(26)...test:

Purified extract+ FeCl₃ _____(27)......

2-(28).....+ conc. HNO₃ — red color, then heat

Yellow color +...(29).... violet color