Phyto 1 final 2013,2016,2022

Al Azhar University
Faculty of Pharmacy
Department of Pharm. Chemistry & Pharmacognosy
Phytochemistry 1

04.May.2016 Time: 2h

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FINAL EXAM 2013

إسم الطلب/ة بلعربية (ثلاثي):

الرجاء عدم الكتابة بالكم الرصاص

I. Select the Best Correct Answer: The use of plants as medicines goes back to:			Phospholipids present in high amount reach more		
Control of the contro	a. Ayurveda medicine b. Pharmacognosy knowledge c. Early man d. Written evidence of traditional medicine	41	than 50% in: a. Flaxseed b. Soybean c. Ginger d. Curcum		
2	The knowledge of drugs means: a. Pharmacognosy b. Phytochemistry c. Plant metabolism d. Traditional Medicine	42	The following type of structure is refer to: OH a. Ar-C3 + 2 × C2 (stylpyrones) b. Ar-C3 + 3 × C2 (isoflavonoids)		
3	Isolation of the natural active ingredient a science belong to: a. Screening clinical trials b. Pharmacognosy c. Phytochemistry	43	Aroma source of turmeric due to: a. α & β tumerone b. Curcumin c. Gingerol d. Shogoul		
4	d. Biochemistry Other chemical groups than the main one refer to: a. Active ingredient(s) b. Substance contents c. Accompanying ingredient(s)	44	All Flavonoids have a common biosynthetic origin. a. Truth b. False		
5	d. Mineral & Vitamins Phenolics are able to react as: a. Antioxidant b. Pro-oxidant c. Anti-inflammatory	45	One of the functions of flavonoids in plants: a. Dience & protection b. Reproduction c. Heavy metal tolerance d. All of the above		
6	d. All of the above Ce-C ₁ phenolic acids that are hydroxylated derivatives of: a. Benzoic acid b. Cinnamic acid c. Phenylpropanoids d. Simple phenols	46	The following structure is:		

	ACTION OF TAXABLE IN	100	a. Flavanoi b. Flavonoi c. Flavanone d. Flavone
7	From stability point of view phenols are: a. Stable b. Unstable c. Most of phenols are stable d. Most of phenols are unstable	47	The follwing structure is:
8	Detection of phenols with TLC must be in: a. Acid medium b. Alkaline medium c. Present of ferric chloride d. Vanillin and HCI	48	Less polar flavonoids are extracted with while more polar with alcohol. a. Truth b. false
9	The first reaction in Shikimic pathway is: a. Formation of 3-P-glyceric acid b. PEP+3-P- Erythrose c. Cyclization of DAHP to 5- dehydroquinate	49	Catechins & proanthocyanidins are exwater. a. Truth b. False
10	Chorismate acid holds a key position in metabolism. a. Truth b. False	50	Anthocyanins are extracted with cold a methanol. a. Truth
11	Amination and anthranilate formation from responsibility of: a. Pyruvic acid b. 5-HO-quinic acid c. Chorismic acid d. Phosphoenol Pyruvic	51	b. Faise The first flavonoids is: a. Chalcone b. Naringenin c. Kaemferol d. Quercetin
12	Arctostaphylos uva-ursi belong to: a. Ericaceae family b. Fabaceae family c. Asteracea family d. Lamiaceae family The active ingredient of Uva-ursi is:	52	Japanese Pagoda refer to: a. Ginkgo biloba b. Sophora japonica c. Passiflora japonica
13	b. Cyanidin c. Gallotannins d. Lithospermic acid	53	The principal and high amount ingress: a. Thymonine b. Thymol c. Rosemarinic acid
4	The tannins in Uva-Ursi act as an: a. Anti-inflammatory b. Antiseptic c. Antibleeding d. Antibacterial	54	d. Salvigenin The effect of thyme is: a. Bronchial antispasmodic & said b. Expectorant c. Cough d. All of the above

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£	De antimicrobial effect is associated with: Aglycon hydroquinone released from arbutin in acid medium Aglycon hydroquinone released from arbutin in alkaline medium Aglycon hydroquinone released from benzoic acid Aglycon hydroquinone released from shikimic acid Administration of Uva-ursi with aspirin lead to:	55	Chamazulene present in: a. Thyme vulgaris b. Passiflora incarnate c. Achilica millefolium d. Ginkgo biloba
*	a. Increasing of the activity of Uva-ursi. b. Decreaing of the activity of Uva-ursi. c. Delay of the activity of Uva-ursi. d. Inactivation of uva-ursi.	56	Anthocyanins arise from the general metabolism of: a. Flavonoids b. Tannins
17	The fat burner effect of artichoke due to: a. Chlorogenic acid b. Neochlorogenic acid c. Cynarin d. Cynaropic rin	57	c. Phenylpropanoids Anthrocyanins are soluble in chloroform and alcohols. a. Truth b. False
1	The antioxidant effect of artichoke due to: a. Phenolic properteis of the drug. b. Vitamins present in the drug. c. Quercetin & Silymarin d. Inhibiting HMG-CoA reductase	58	Blueberry Inhibit collagen induced platelet aggregations; this effect due to: a. Anthocyanin b. Proanthocyanidius c. Flavonoids
79	intreasing of bile flow due to: a. Antioxidant properteis of cynarin. b. Cholagouge effect of cynarin c. Anti-inflammatory effect of cynarin d. High amount of fiber in the drug.	59	d. Minerals & vitamins Astringent and antiseptic activities of tannins due to present of: a. Water soluble polyphenols b. Condensed tannins c. Hydrosoluble tannins d. (B+C)
*	Firsh artichoke is an excellent source of: a. Vitamin B ₃ b. Vitamin B ₆ c. Vitamin B ₉ d. Vitamin B ₁₂	60	True tannins are simple phenois with molecular weight reach 5000 D a. Truth b. False
7	ble duct blockage. 2. Truth b. False	61	Hydrosoluble tannins are classify in a. Condensed & complex tannins b. True & pseudo tannins c. True & Condensed tannins d. None of the above
,	The anti-inflammatory effect of rosemary due to: a. Phenolic acids b. Flavonoids c. Diterpen d. Triterpen	62	Pseudo tannins are simple phenolics that gives gallitannins& ellagitannins. a. Truth b. False
0	Rosemary consider one of the memory takancer, this fact due topresent of: a. Phenolic acids b. Flavonoids	63	Flavan-3,4-diols called: a. Lecoanthocyanidins b. C-glucosidic ellagitannins c. Proanthocyanidins

-	c. Diterpen	1 1	d. Phiobaphenes	
	d Triterpea			
_	The volatile oils in rosemary have a role in:	1.5	Condensed tanning are ac-	
	a Antiseptic	3 7	b. C-glucosidic ellenia	
	b. Mood elivator	64		
24	C. Brain beriormance			
	d. All of the above	100	c. Proanthocyanidins	
	WICH TSTREET, CO.		d. Phiobanhan	
	Rosemary is a very good source of:		The highest amount of tannins for	
25	a. Vitamin A & iron	1	a. Blackberry	
		65		
	c. Vitamin C & magnesium		c. Tea	
_	d. Vitamin D & calcium		d. Oak	
20	Balsams are defined as oleoresine.		Lady's Mantle shown to inhibit tun	
26	- 11-11-1	66	a Truth	
27	b. False	4	b. False	
27	Echinacoside belong:	1	The cardiotropic effect of	
77	a. Polysaccaride b. Alkamide	1	the increased membrane permant	
27	The state of the s	67		
	c. Phenylpropanoids d. Caffeic acid derivatives	13.0	a. Truth	
28	Prenylation in 6 position yield to		b. False	
	a. Linear furanocoumarin	1	One of the best drugs for bleeding he	
28	b. Angelar furanceumaria	100000	WHEN Hazel	
	C. Linear furano / pyrano coumarin	68	a. Truth	
	d. Angular furano / pyrano coumarin	-	b. False	
	The glycosides forms of coumarins are:	1 1		
29	a. More soluble in water	1	Lawsone (2-bydroxy-1,4-naphthaquin	
•	b. Less soluble in water	69	active ingredient of lawsonia, from an	
_	C. Non soluble in water	No.	a. Iruth	
	Khellin is used in vitiligo and:		b. False	
	- UII	-	The following structure is:	
	b. PMS		9	
	c. BPH d. GIT	1		
	u. 611	(A)		
30				
		70	Y Y	
30		25.5	04	
			200 25	
		0 0	940 • MANAGES 15	
		1 8	a. Lawsone	
	The main biological properties of dong quai due to:		b. Jugione c. Myrecein	
			d. Hyperforin	
			The sedation effect of hawthern attribet	
			oligomeric procyanidins.	
1	b. Lignans c. Isoflavonoids		a. Truth	
		71	b. False	
	d. Mineral & Vitamias		violan-su rress i	

Vesodilatatory effect of dong quai due to: a. Coumarin b. Lignans c. Isoflavonoids d. Mineral & Vitamins	72	Cascara sagrada is a. Emollient b. Laxative c. Purgative
d. Mineral & Vitalities Dong quai is contraindicated in case of: a. CHF b. PMS c. Pregnancy d. Children	73	Senna is contraindication in cardiac patients, this fact due to: a. Purgative effect of senna b. Hypokalemia effect c. Increase the side effect of cardiac drugs d. Dehydration
Results from bonding between the \$\beta\$ carbons of side chain of two units derived from 1-phenylpropane: a. Lignans b. Neolignans c. Flavonoids d. Isoflavonoids	74	Walnut is a great remedy for the brain functions. This fact due to: a. Oleic acid b. Omega 3 c. Juglone d. All of the above
The drug obtaining from Podophyllum pelatus is: a. Taxol b. Pellatin c. Etoposide d. Teniposide e. None of the above	75	St. John's Wort theoretically increasing the risk for hypertensive crisis. a. Truth b. False
Liganas are famous as: a. Antitumors b. Anti-inflammatory c. Nutritive d. Diuretics	76	The medicinal part of cambis is: n. Leaves b. Twig tips of the female flowers c. Twig tips of the male flowers d. Whole plant
Milk thistle belong to: a. Ericaceae family b. Fabaceae family c. Asteracea family	77	The active ingredient in cannabis, is: a. 9-tetrabydrocannabinol b. Cannabidiol c. Cannabinol d. Caryophyllen
The bepatoprotective effect of silibiain due to a. Decreases production of superoxide to the Kupffer cells. b. Inhibits leukotriene formation. c. Increases glutathione production by liver.	78	Psychotropic action of cannabis due to: a. 9-Tetrahydrocannabinol b. Cannabidiol c. Cannabinol d. All of the above
d. All of the above Genisin, one of the active ingredients of: a. Sylibum marinum b. Schizandra chinensis c. Linum usitatissimum d. Glycine soja	79	Lack of the effect of lethal dose in marijuana due to: a. Poperity of addiction b. Properity of dependancy c. Properity of tolerance. d. Properity of the chemical group which belong.
The deagerous effect of Linum refer to: a. Flaxseed b. Flaxseed oil	80	Hops is an estrogen, thus its indicate for menopause cases. a. Truth b. False

1	21	41	1 61	_
2	22	42	61	L
3	23	43	62	
4	24	44	63	
5	25		64	
6	26	45	65	
7	27	46	66	
8		47	67	-
9	-28	48	68	-
100000	29	49	69	-
10	30	50	70	-
11	31	51	71	-
12	32	52	72	_
13	33	53		_
14	34	54	73	_
15	35	55	74	_
16	36	56	75	
17	37	57	76	
18	38		77	
19	39	58	78	
20	40	59	79	
Employer	40	60	80	

II. Starting from Chorismic acid to obtain phenylalanine: (4M)

Comment the following structure:

(6M)

a. Mention the name of the structure. (1M)

b. Mention the name of chemical group? (2M)

- c. Mention one benefit & one precaution for the drug. (3M)
 - i. Benefit is:
 - ii. Precaution is:

Discuss briefly just 2 of the following drugs: a. Thyme Phytochemical (s): (3M) Target patient (s): Phytochemical (s): (3M) Effect: (2M)

c. Frangula

Chemistry:

(3M)

Effect: (1M)

Contraindication: - (1M)

GOOD LUCK! Dr. Mazen A. El-Sakka May 4, 2016