## Phyto III dr mazen final 2016

Azhar University Southy of Pharmacy Ament of Pharm.

pepartment of Pharm. Chemistry & Pharmacognosy 2016

18.May.2016 Time: 2h

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## FINAL EXAM 2016

الزجاء عد الكتابة بالظم الزصناص

إسم الطالب/ة بالعربية (ثلاثي):

Select the Best Correct Answ	er:	(75M)
The biological activity of many alkaloids is often dependent on:  a. Amine function b. N-CH3 group c. Toxicity level d. Dose administrated	41	The main alkaloid in Pomegranate is:  a. Punicalagin b. Isopelletierine c. Piperidine d. None of the above
Hegnauer's classification based on:  a. Type of nitrogen b. Biochemical origin c. Biological origin d. (A+B)	42	Black piper increase the metabolic rate.  a. Truth b. False
As a prefix, Nor designates:  a. Dehydration  b. Isomers  c. N-methylation  d. (A+C)	43	The nicotinic acid component of nicotinamid is synthesized in animals by degradation of:  a. Phenylpropane b. Phenaylalanine c. Tryptophan d. Anthranilic acid
Some alkaloids are amphoteric due to:  a. The presence of nitrogen groups in their molecule.  b. The presence of basic groups in their molecule.  c. The presence of acidic groups in their molecule.  d. The presence of salts in their molecule.	4	Anabasine is produced from nicotinic acid and:  a. Ornithine b. Lysine c. Tyrosine d. Niacin
Most alkaloids are crystalline solids except nicotine.  a. Truth b. False	45	Nicotinic acid in large doses can lower both cholesterol and triglyceride concentrations by inhibiting their synthesis.  a. Truth b. False
The value of solubility due to variation in structure and salts are variable.  a. Truth b. False	46	Psychoactive and hallucinogenic properties of cactus due to:  a. Decarboxylation product from L-DOPA L dihydroxyphenylalanine. b. Convert dopamine into mescaline. c. Convert mescaline into dopamine. d. Dopamine

,	a. Truth	47	Cathinone is structurally similar is synthetic amphetamine.  a. Truth b. False
8	b. Hydrolysis c. Demethylation	48	Ephedrine is a directly acting sympathomimetic amine with effeto noradrenaline.  a. Truth b. False
,	Van-Urk's test for ergot alkaloids, these give a violet color  a. Truth b. False	49	Ephedrine is able to displace nora from storage vesicles in the nerve which can then act on receptors. a. Truth b. False
10	Selection of a suitable method for extraction alkaloids forms plants which depend on:  a. Scale and purpose of the operation b. Natural of raw material c. Solubility of the active ingredients d. (a+b)	50	The stimulant and thermogenic et of Ephedra sinica due to presence a. Ephedrine b. Pseudoephedrine c. Norephedrine d. (A+B)
11	The use of strong alkali should be avoided in case of ester alkaloids  a. Truth  b. False	51	The initial burning effect of capsaici to:  a. Affect reward system b. Affect pain receptors c. Inhibit CNS, making pain i d. Feel reducing the pain not a
12	The pyrrolidine ring system is formed initially as a Al-pyrrolinium cation.  a. Truth  b. False	52	Peyocactin, one of the active ingre peyote with:  a. Hallucinations effect b. Narcotic effect c. Antidepressant effect d. Antibiotic effect
13	Vitali-Morin reaction is specific for ornithine .  alkaloids when a dark violet color is develop.  a. Truth  b. False  Tropan alkaloids assets	53	The principal opium alkaloid (s) is a. Morphine b. Morphine, codeine, & theb c. Morphine, codeine, & paper
4	Tropan alkaloids are responsible for the anti- cholinergic-parasympatholytic.  a. Truth  b. False	54	d. All ingredients mention abo Biosynthetically, morphine can be a a. conversion of thebaine by codeine b. conversion of thebaine by oripavine c. Total extract of opium d. (A+B)

15	Agropa belladonna preparations act as a parasympatholytic via dopamine transmitter. 2. Truth b. False  Agropa belladonna preparations release	55	Crude opium has been used since antiquity as a. An sleeping agent (narcotic sleeping) b. An analgesic & cough treatment agent c. An anti-diarrhea therapy. d. All of the above
16	hallucinogenic effect.  a. Truth  b. False	56	The following structure is:  H <sub>3</sub> CO  a. Morphine b. Codeine c. Thebaine d. Reticuline
17	By blocking the action of serotonin, atropine serves as an antidote for organophosphorus poisoning.  a. Truth b. False	57	Morphine in small doses, in pharmacy, used as:  a. Anigesic agent for cancer diseases b. Antidepressant agent c. An anti-diarrhea in severe cases. d. None of the above
18	Injections of atropine are used in the emergency treatment of:  a. Angina pectoris b. Tahicardia c. Cardiac arrest d. Ventricular fibrillation	58	Codeine used in pharmacy as:  a. Morphine-like b. Just antitussive c. An analgesic instead of morphine (one-tenth the potency of morphine) d. None of the above
19	Henbane was traditionally used as:  a. Antiasthmatic b. Pain killer c. Antispasmodic (in biliar spasm) d. (A+C)	59	Noscapine or narcotine, a drug with:  a. Antitussive without narcotic effect. b. Antitussive with narcotic effect. c. Antitumor effect. d. (A+C)
26	Henbane:  a. Inhibit affects the muscarinic action b. Stimuli affects the muscarinic action c. Inhibit affects the nicotinic receptors d. Stimuli affects the nicotinic receptors	60	a. Codeine b. Naloxone c. Naltrexone d. Methadone

_	turn bit	770	The following structure is:
21	a. Atropine b. Hyocyamine c. Cocsine	61	n,co OCH, OCH,  a. Colchicine b. Emetine c. Vincristine d. Vinblastine
22	d. Hyocine Habituation is a condition resulting from the repeated consumption of a drug. a. Truth b. False	62	Actually, colchicine is the one of a remedy for:  a. Gout b. Cancer as antiphlogistic ef
23	a. Atropine b. Hyocyamine c. Cocaine d. Hyocine	63	Ipecacuanha has antiamoebic acti emetine and cephaeline are both p inhibitors of protein synthesis, in the translocation stage.  a. Truth b. False
24	Addiction is:  a. Psychological disorder.  b. Compulsive use and loss of control of a drug.  c. A brain disease with permanent relapse  d. None of the above	64	Serotonin is one of simple hydroxy derivatives of tyramine.  a. Truth b. False
15.	The following structure is:  H <sub>3</sub> C -N - CH <sub>3</sub> a. Ecgonine b. Cocaine c. Methylecgonine d. Benzoulecgonine	65	Hordium vulgare is a good remedy reduction.  a. Truth b. False

Tolerance: Is a state of adaptation in which exposure to a drug induces changes that exposure to a diminution of one or more of the result in a diminution of one or more of the drug's effects over time.  a. Truth b. False	66	Eating whole grain barley can:  a. Supress appetites  b. Regulate blood sugar  c. Increase diureses  d. All of the above  The following structure is:
physical dependence :occurs when a drug physical dependence :occurs when a drug has been used habitually and the mind has become accustomed to its effects.  a. Truth b. False	67	HN NH2  a. Tramadol b. Serotonin c. Dopamine d. Acetylcholine
The most dangerous form of cocaine when:  a. Smoked b. Snorted c. Injected d. All of the above are addictive &	68	Peganum harmais is used as:  a. Anti-inflammatory agent b. Antidepressant c. Antitumor d. Antihypertensive
dangerous  The best & long duration test for cocaine detection is:  a. Saliva test b. Urine test c. Blood test d. Hair test	69	Rauwolfia has been used in traditional medicine as:  a. Antidote to snake-bite & against stomach pains  b. Antidote to snake-bite & against feve c. Antidote to snake-bite & against vomiting  d. All of the above
The high poisoning properteis of pyrrolizidise skeleton due to:  a. 1,2-unsaturation in the pyrrolizidine ring b. 2,3-unsaturation in the pyrrolizidine ring c. ester function on the side-chain of the pyrrolizidine ring d. (A+C)	70	The following structure is:  CH <sub>2</sub> O OCH <sub>3</sub> CH <sub>2</sub> O <sub>C</sub> OCH <sub>3</sub> a. Reserpine b. Serpentine c. Rescinnamine d. Deserpidine
Indicine-N-oxide demonstrated significant:  a. Hepatotoxic activity b. Antileukaemic activity c. Antidepressant d. (B+C)	71	Reserpine in small doses used as hypotensive and in big doses used as tranquillizers.  a. Truth b. False

	Cocaine is a strong CNS stimulant	that		The following structure is:
	a. Acetyle choline b. Dopamine c. Serotonin		72	OHO OH
32	d. Cocaine base	1	72	a. Ajmalicine b. Ajmaline c. Strychnine d. Brucine
33	Cocaine Hydrochloride acts as a lo anesthetic and safe in all cases or d a. Truth b. False	-	73	Catharatus vinca rosea have:  a. Anti cancer properteis. b. Anti diabetic properties. c. Antioxidant properteis. d. All of the above
	Elimination of cocaine from the boon:  a. Amount of drug administra b. Regularity of using	A. Carrie		Ergotamine is:  a. A partial agonist of α-adonad 5-HT receptors.
34	c. Body weight d. All of the above		74	b. A vasoconstrictor compo     c. A reversible inhibitor of     cholinesterase.      d. A compound with ability of     adrenergic, dopaminergic
L	Cocaine is detectable in saliva after a. Few minutes			Paullinia cupana used to:
35	b. Few hours c. Few days d. Not detectable	,	75	Relieve mental and physi     Relieve abdominal spasm     Stimulate CNS.     d. Burn fats
36	Borage contains gamma-linolenic a a. Truth b. False			
37	Borage oil is used for neurodermati Menstrual Syndrome (PMS) and as supplement. a. Truth b. False	tis, Pre a food		
	The following structue is			
18	a. Tussilagin b. Allantoin			

d. None of the above

Eyebright refer to:

- a Lupinus termis
- b. Lobelia inflata
- c. Punica granatum d. Ephedra sinica

Lobelia is applied to the skin for muscle pain, joint lumps associated with rheumatoid arthritis.

- a. Truth
- b. False

2 3 4 5 6 7 8	41 42 43 44 45 46 47 48	62 63 64 65 66 67 68
4 5 6 7	43 44 45 46 47	64 65 66 67
5 6 7 8	45 46 47	65 66 67
6 7 8	46 47	66 67
8	47	67
8		
	48	68
9		
	49	69
0	50	70
1		71
2		72
3		73
4		74
5		75
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	60	
	9 0 1 2 3 4	9 49 0 50 1 51 2 52 3 53 4 54 5 55 6 56 6 57 7 58 8 59 9 60

II. Please answer ONE of the following:

(5N

- a. Formation of serotonin
- b. Formation of papaverine

## III. Answer ONE of the following

- a. Isolation of reserpine
- b. Isolation of pilocarpine

(5M)

Discuss briefly clear, chronologic and in points just ONE ٧. (10M) the following:

a. Mechanism of nicotine addiction.

a. Mechanism Morphine-LSD-caffeine relationship

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V. Comment the following structure:

- a. Mention the name of the structure. (1M)
- b. Mention the name of pharmacological group? (1M)
- c. Regarding to this group, mention 3 pharmacological properties for the drug. (3M)
  - 1.
  - 2.
  - 3.