私立臺北醫學院_89 學年度第_/_學期期末考試(試)題紙

系	級	科	自	授	裸	教	師	考	試	Ħ	期	拳	號	姓	名
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Chaice The Best One:

- 1. The reaction of salicylic acid with acetic anhydride produces:
 - a. acetophenetidin
 - b. amphetamine
 - c. aspirin
 - d. heroin
 - e. ibuprofen
- 2. Aspirin's effects come from its ability to inhibit the formation of
 - a. cholinesterase
 - b. nitrosamines
 - c. prostaglandins
 - d. testosterone
 - e. triglycerides
- 3. Prostaglandins are best described as:
 - a. a class of endorphins
 - b. plant extracts used in the manufacture of illicit drugs
 - c. narcotics available as prescription drugs
 - d. bodily chemicals that play roles in fever, inflammation and the sensation of pain
 - e. a class of compounds used as poisons in the Middle Ages
- 4. Ibuprofen belongs to the class of:
 - a. carboxylic acids
 - b. esters
 - c. p-aminophenols
 - d. proteins
 - e. salicylates
- 5. Morphine is isolated from:
 - a. Asian shrubs
 - b. cactus plants
 - c. lichens
 - d. poppies
 - e, willow trees
- 6. The acetylation of morphine produces:
 - a. acetylsalicylic acid
 - b. cocaine
 - c. codeine
 - d. heroin
 - e. tetrahydrocannabinol
- 7. In addition to carbon and hydrogen, all alkaloids contain the element:
 - a. bromine
 - b. nitrogen
 - c. oxygen
 - d. phosphorus
 - e. sulfur

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私立臺北醫學院 89 學年度第 / 學期期末考試 命 題紙

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※①請注意本試題共 <u>「</u> 張。如發現頁數不足及空白頁或缺印,應當場請求補齊,否則缺少部份概以零分計。															
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- 8. A chemical used to counter the effects of narcotics is:
 - a. acetylsalicylic acid
 - b. naloxone

 - c. procained. reserpine
 - e. tropane
- 9. An endorphin acts as a(n):
 - a. analgesic
 - b. antioxidant
 - c. carcinogen
 - d. nutrient
 - e. opiate antagonist
- 10. Opiate receptors are:
 - a. sites in the nervous system that accept precisely fitting narcotic molecules
 - b. chemicals that react with opiates to produce opiate antagonists
 - c. substances produced by the reaction of narcotics with endorphins
 - d. polypeptides formed by the partial hydrolysis of an endorphin
- 11. The term LD50 refers to:
 - a. a lethal dose to a 50 kg person
 - b. half a lethal dose to a normal individual
 - c. a lethal dose to a 50 g animal
 - d. the quantity that is lethal to half of a large population of animals
 - e. half of a standard lethal dose
- 12. The LD50 of a certain chemical is 10g/kg, orally in rats. This means that:
 - a. 10 g of the substance will kill 50 1 kg rats
 - b. 10 g of the substance will kill a 1 kg rat in 50 days
 - c. 10 g of the substance will kill 50% of a large group of 1 kg rats
 - d. 50 g of the substance will kill a 1 kg rat if eaten in 10 g portions
 - e. 50 1 kg rats can eat 10 g of the substance without ill effects
- 13. The most powerful toxin or poison known is:
 - a. arsenic trioxide
 - b. botulinum toxin
 - c. TCDD
 - d. one of the declassified nerve gases
 - e. sodium cyanide
- 14. The acceptable daily intake of a food additive is generally taken
 - a. the maximum level that shows no effect on laboratory animals
 - b. the minimum level that shows no effect on laboratory animals
 - c. 100 times the minimum level that shows no effect on laboratory animals
 - d. 1/100 the maximum level that shows no effect on laboratory animals
 - e. 1/100 the level that shows no effect on 50% of the laboratory animals

私立臺北醫學院_89 學年度第_/_學期期末考試命題紙

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- 15. The additive among the following that would be prohibited by a strict reading of the Delaney Amendment is:
 - a. BHA
 - b. ethyl acetate
 - c. mono- and diglycerides
 - d. saccharin
 - e. sodium bicarbonate
- 16. Aspartame is a dipeptide that provides the body with 4.0 Calories/gram. Yet aspartame is useful for sweetening low calorie foods and drinks. This is because aspartame:
 - a. is 160 times as sweet as sucrose
 - b. is not metabolized by the body
 - c. consists of two essential amino acids
 - d. consists of two nonessential amino acids
 - e. produces a specific dynamic action large enough to compensate for the calories it delivers
- 17. The synthetic sweetener aspartame is a dipeptide containing the two amino acids:
 - a. glycine and alanine
 - b. glutamic acid and leucine
 - c. aspartic acid and phenylalanine
 - d. isoleucine and leucine
 - e. aspartic acid and glutamic acid
- 18. The organ whose function is the detoxification of poisons is the:
 - a. appendix
 - b, kidney
 - c. liver
 - đ. spleen
 - e. stomach

Answers:

1	6	11	16	
2	7	12	17	
3	8	13	18	
4	9	14	19	_
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私立臺北醫學院_89_學年度第_/_學期期末考試(試)題紙

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1/1	岩山	,		12 W 42 P		<u>~</u> F A	日第	<u></u>	7	 	號		名
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			A Tosii .								<i></i>	7H	
		4	140 III 74. S	the blanks 34%)	with th	e most p	roper ar	ıswer	(each 2º	%, total	7	了了	
			•	n reason(s) for								虑	
			1)			Change o	indicators	are					
			2)								•		
		2	. The treat	ment of the re	sults fron	n an acid-b	ase titratio	n is alw	ays assist	ed by		你	•
			mamema	tical method(s), that is	the end po	int can be	obtained	by the			a	
				nd point to be		maximun	n, if such a	n estima	tion still	shows an		一	
			nil (zero)	is always take	n for the	determina	r paramete	end noi	nt	to be		用	
		3.	Eriochron	ne Black T is	a good in	dicator in		ona por	iit. (a meth	od) whic	h		
			uses		(a con	pound) to	titrate the	calcium	ion cont	ent in	••		
		1	water.										
		7,	THE WAVE	length range o	of UV is_	·	r	ım, for 1		light is			
•		5.	The	nm, while	is the	unique an	naratus that	nn can em	l. it abanast				•
			wave leng	th which is in	turn quan	titatively:	absorbed b	v the ch	n charact aracteristi	eristic ic element			•
			present in	the sample.									
		6.	The comm	on polydentat					itrations a	are			•
		7.	In a GC (C	as Chromotos	and	<u> </u>		etc				٠	
		,,	encountere	as Chromatog d. namely	grapny), ti	nere are th	ree kinds o	of detect	ors comm	only			
			a))		c).						
		8.	In using IC	(Ion Chroma		to analyz		ount of i	ons such	as Cl ⁻ and		•	
			Br ions, a	· · · · · · · · · · · · · · · · · · ·	_column :	is used alc	ng with a			_(an			
		R) to detect thei									
		. D.	20%)	or the right s	tatement	s, and (×)	for those	are wro	ng (each	4%, total			
		`(•	ling to the van	Deemter	's Equatio	n, the large	er the flo	w rate of	the			
			carrier gas	s, the more fav	orable fo	r the resol	ution (sepa	ration e	fficiency)				
•		()2. In a GC	C (Gas Chroma	atography), the high	er the flow	rate of	the carrie	r gas is,			
		(the larger	the longituding	al diffusio	on term wi	ll be.						
		,	(e.g. 2.5 m	ution (200 mL	.) contain riochrom	ing an exc	ess of ED7	TA (e.g.	5.0 mmol	les), Ca ²⁺			
			color.	imoles), and E	110cm on 1	e Diack 1	(e.g. 1.0 m	moles)	will exhib	oit a red			
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私立臺北醫學院_89_學年度第__/_學期期中考試命題紙

*	級	1	4	目	*	題	教	師	考	找	Ħ	栁	李	號	娃	名
技		عالمه	K							年月	日第					
¥4	等仍持注意太拉籍业 帮。如荼羽百数不足,直承退拉市场流。不则从百世从知识于人处。而在现处历史以进中(曹操) (以上)															

- ()4. In a mixture of calcium and the magnesium ions, the differential titration (i.e. to titrate separately the calcium and the magnesium ions) can be conducted by taking the advantage of pH 10.
- ()5. The Craig Equation is used to describe the countercurrent extraction between two immiscible contacting liquids.

C. Select proper item and mark its symbol in the parenthesis (each 2%, total 16%)

- ()1. In the functionalities >C=O, or >C=C<, the energy gaps of σ---→σ* transitions are always a). larger b). smaller c). is the same dimension as (than) those of the π----→π* transitions.
- ()2. In acid-base titrations, the color change of the indicator usually covers a pH range of a). $pK_{in} \pm 10$, b). $pK_{in} \pm 1$ c). $ln pK_{in} \pm 1$
- ()3. The condition to take advantage of an adsorption indicator such as Ag-fluorescinate is a) the larger of the K_{sp}
 b) the smaller the K_{sp}
 c) any K_{sp} of Ag-fluorescinate is more favorable.
- ()4. In fluorescence technique, we usually use a). X-ray b). UV (Ultra Violet)
 c). a high temperature heating furnace to excite the sample.
- ()5. The carrier gas generally used in GC (Gas Chromatography) is
 a). Cl₂
 b). He
 c). O₂
- ()6. A cationic exchanger can be used for the separation of a). Cl., CO₃², Ca²⁺, Mg²⁺, etc.
 b). Ca²⁺, Mg²⁺, Ni³⁺, Cl., etc.
 c). Cu²⁺, Ni²⁺, Fe²⁺, Ni²⁺, etc.
- ()7. In the AAS (Atomic Absorption Spectrophotometry), the sample solution is excited in a). the atomizer b). the furnace c). the cathode
- ()8. In the IC (Ion Chromatography), the suppressor column is used to suppress
 the interference of a). Calcium ion b). Sodium ion c). Magnesium
 ion d). Potassium ion