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DENTAL PHARMACOLOGY FINAL EXAM

April 15, 2005

You have TWO (2) hours and 30 minutes to complete this examination. The examination contains 100 questions, each worth 1 point.

Answer all questions on the computer sheet provided; use a soft lead pencil. Be sure that you have correctly identified your answer sheet by PRINTING your name and social security number and correctly filling in the grid spaces. Please turn in your answer sheet at the end of the exam. An answer key and grades will be posted on Blackboard.

This examination is being administered under the Honor Code of Temple University Dental School.

	Ques	tions 1 – 92: Select the single, most appropriate answer.		
Z	IJ	A drug when injected intravenously causes vasodilation, bradycardia, miosis, salivation, and increased gastrointestinal tract motility. The drug is most likely to be		
		A. A ganglionic blocking agent A muscarinic receptor agonist C. A muscarinic receptor antagonist D. An alpha-adrenergic receptor agonist An alpha-adrenergic receptor antagonist		
	8.	Which of the following molecules directly releases calcium from intracellular stores into the cytoplasm when activated?		
	· -	Muscarinic receptor B. Gaq receptor Inositol-1,4,5-P ₃ (IP ₃) receptor D. Nitric oxide receptor Nicotinic receptor		
	A	In addition to blocking sodium channels, which antiarrhythmic drug acts on potassium channels to prolong the action potential?		
\mathcal{C}	ì	A. Flecainide B. Lidocaine Procainamide D. Verapamil E. Propranolol		
\wedge	₄ .	A drug that is used to inhibit cholesterol synthesis:		
\mathcal{A}	†	Pravastatin B. Colestipol		
	_5.	Which of the following is the drug of choice for treating an acute anginal attack?		
B)	A. Atenolol B. Nitroglycerin C. Nifedipine D. Diltiazem E. Propranolol		

]

You are treating a kidney transplant patient and learn that he is currently receiving potent immunosuppressive drug therapy to prevent organ rejection. One of the drugs that your patient is receiving is azathioprine. This drug exhibits which of the following actions?

A. Is well absorbed from the gastrointestinal tract and is a non-cytotoxic agent Selectively blocks IL-2 receptor function by T cells

C. Is most effective when used in combination with levamisole

Is frequently used in combination with prednisone for kidney transplant patients

E. Selectively blocks IL-2 production by antigen-presenting cells

Parkinsonism is best treated by

- A. Increasing acetylcholine levels in the central nervous system
- B. Increasing acetylcholine levels in the plasma
- C. Increasing dopamine levels in the central nervous system
- D. Increasing dopamine decarboxylase activity in the plasma
- E. Both decreasing dopamine and increasing acetylcholine levels in the central nervous system

Ethanol, in acute or chronic use, can affect the cardiovascular system in different ways. Ethanol causes all of the following EXCEPT:

- 'A. ' Cutaneous vasodilatation
- B. Intracellular lesions of the myocardium
- Increased levels of high density lipoproteins (HDLs)
 - 2. Inhibition of platelet aggregation
 - Increased risk of cerebral stroke

Both the benzodiazepines and the barbiturates are most correctly prescribed as

oed.

- A. Skeletal muscle relaxants
- B. Antipsychotics
- C. Antiepileptic agents
- D. Antidepressant agents
- E. Antianxiety agents

Which one of the following statements about cocaine is true?

- A. Cocaine is an antagonist at dopamine autoreceptors
- B. Cocaine HCl is more addictive than crack cocaine because higher doses can be taken intranasally
- Crack cocaine is more addictive than cocaine HCl because it is absorbed faster
- D. Chronic use of cocaine does not lead to psychological dependence
- E. There is tolerance to the anxiogenic effects of cocaine

Which one of the following drugs has both opioid receptor agonist and antagonist properties? Melphil -Tramadot Nalbuphine -Naltrexone-Meperidine E. Dihydrocodeine Before beginning folate therapy for megaloblastic anemia, one should consider which of the following to prevent neurological disease? Vitamin B₁₂ deficiency Zinc deficiency Iron deficiency D. Vitamin B₆ deficiency E. Vitamin C deficiency Penicillin V is used orally in dentistry in preference to penicillin G because: It is less toxic It is more stable to stomach acid It is intrinsically more effective It-tastes better At is bacteriostatic Which of the following antibiotic combinations is indicated for treatment of Pneumocystis carinii pneumonia? Rifampin + isoniazid B. Rifampin + erythromyčin C. Penicillin + aminoglycoside Penicillin + tetracycline Trimethoprim + sulfamethoxazole Which one of the following antibiotics is most likely to interact with theophylline to cause seizures? **Amoxicillin** Ciprofloxacin - Vancomycin D. Clindamycin **Tetracycline**

Which of the following drugs is most useful to cure enterocolitis (bloody	diarrhea)
caused by Clostridium difficile?	
A Erythromycin	
R Clindamycin	
C. Gentamicin D. Tetracycline	
(E.) Vancomycin	
All of the following statements about erythromycin are true EXCEPT:	
A. It is a macrolide antibiotic	
B. It is bacteriostatic C. It can be used to treat Mycoplasma infections	
C. It can be used to treat Mycoplasma infections D. It is excreted unchanged in the urine	
E. It is useful in penicillin-sensitive patients	6
Isoniazid acts to kill Mycobacterium tuberculosis by which one of the fol mechanisms?	lowing
†	
A. Interfering with pyridoxine-dependent reactions	
B Interfering with bacterial cell-wall synthesis	
C. Inhibiting DNA-dependent RNA polymerase D. Altering membrane permeability	
E. Inhibiting 30S ribosome function	I
Except) Except Except	lowing
A. Breast cancer	
(B.) Osteoporosis	
C. Thromboemboli	
D. Migraine headaches	
E. Hyperglycemia	
20. Treatment of prostate cancer is most likely to include	
A. Raloxifene	3. X X
B. Mifepristone	
C. Mestranol + levonorgestrel	
D. Tamoxifen + exesmestane E Leuprolide + flutamide	
List Deupronde : Indiamide	

Acetylcholine produces all of the following effects EXCEPT: Reduction in heart rate Bronchodilation Increase in gastrointestinal motility Miosis Commander of D. Skeletal muscle contraction are Which of the following drugs, used in the treatment of congestive heart failure, increases cardiac contractility by inhibiting sodium-potassium ATPase? Hydrochlorothiazide B. Dobutamine Digoxin D. Carvedilol Spironolactone All of the following statements about pharmacokinetic properties of drugs are true EXCEPT: A drug administered by oral administration is most susceptible to first-pass liver metabolism Binding to plasma proteins reduces the rate of distribution of a drug Nitrous oxide is excreted unchanged by the lungs Free drug in the plasma, but not protein-bound drug, is susceptible to glomerular filtration Acidifying the urine increases the renal excretion of a weak acid All of the following are true about aspirin EXCEPT: Is an irreversible inhibitor of cyclooxygenase 1 and 2 Is analgesic and antipyretic Is anti-inflammatory Increases the risk of heart attack and stroke Overdose is treated with sodium bicarbonate 25. A patient is prescribed terbinafine by his podiatrist. The doctor requires lab work during therapy. He is concerned about A. Metabolic acidosis fungal B. - Anemia Hepatotoxicity Hyperglycemia Hypokalemia

Most useful topically as a mouthwash for treatment of a fungal infection of the mouth and gums: **Amantadine** В. Acyclovir Griseofulvin Nystatin Flucytosine Which of the following antimicrobial agents is most likely to inhibit cytochrome P450, and reduced estosterone synthesis Keteconazele... -Zidovudine Tetracycline Amphotericin B-Rifampin A patient is prescribed ganciclovit for a cytomegaloviral infection. The most likely adverse reaction profile includes Metabolic acidosis Anemia and renal impairment Hypertension and tachycardia A HR D., CNS depression William E.: Cirrhosis of the liver All of the following statements about zidovudine are true **EXCEPT**: Effective in the treatment of HIV Effective in the treatment of Hepatitis B Lamivudine enhances its effectiveness Is a reverse transcriptase inhibitor ·E. Produces anemia An overdose of levothyroxine is most likely to produce **Hypoglycemia** Α. В. Hyperlipidemia A Lyberton -Memory loss Tachycardia * WF Weight-gain

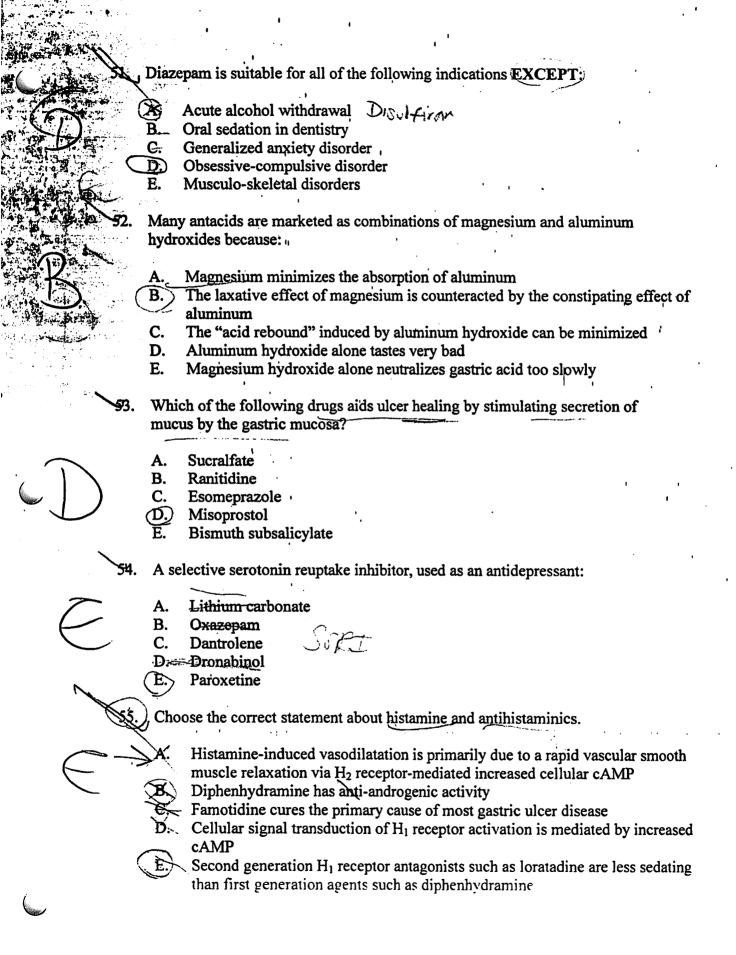
	·	-201621155
31.) Which of	f the following best describes the mechanism of triiodothyronine?	and the second
	Two d	
A Stir	mulates adenylyl cyclase	The state of the s
	ibits adenylyl-cyclase	
Bin	ds to an intracellular receptor to enhance protein synthesis	
	mulates a tyrosine kinase-linked receptor	
ESti	mulates phospholipase C	
32. All of the	e following are true about propylthiouracil EXCEPT:	Pull Land
	hugath has	
A. Red	duces the synthesis of thyroid hormones	4014
B. Re	duces the deiodination of thyroxine	44.0
Ra	pidly reverses hyperthyroidism (within 2 days)	
	uses gastrointestinal upset and rash	
	ay rarely cause agranulocytosis	1.74 (1.74 m)
	, , , , , , , , , , , , , , , , , , , ,	The state of the s
33. Which o	f the following drugs binds to hydroxyapatite to reduce bone turnove	er in d
natient v	with Paget's disease?	or ma
patient v	vidi de discusso.	
A. Me	ethimazole	
	dronate	75 cm 1 m
	Houtamide	Transaction of the
	efformin	Translation .
E. Pa	rathyroid hormone *VC.	AND THE STATE OF T
24 11111	C.1 C.11	
34. Which o	of the following best describes the mechanism of insulin?	and the same
1 /	imulates adenylyl cyclase	264
	hibits-adenylyl cyclase	**
	creases calcium influx	
D Sti	imulates a tyrosine kinase-linked receptor	
Bi	nds to intracellular receptors to enhance protein synthesis	
35. A partia	l estrogen receptor agonist in the pituitary; used to induce ovulation:	9.75
2	Birth State Comment of the Comment o	
A. Et	hinyl estradiol	1. Carlot 1.
	estranol A	· 107568
	evonorgestrel	
	omiphene	40.0
	utamide	
E. FI	utamiuc	

26.	of the	year-old female is being treated with insulin for type-1 diabetes mellitus. A following conditions will require an increase in the dosage of insulin EPT:	All
	X	Hyperthyroidism	
	NA .	Treatment with an oral contraceptive	
THE STATE OF	<i>'</i> &'	A reduction in physical exercise	
	' B '	Stress	
	E	Treatment with metformin	
		Treatment with metrorium	
	337h;	sh of the following danger has the most officially day it. I also a	
37.	AN ITTO	ch of the following drugs has the most effective antidiarrheal action?	
		Atmosphia	
الماليات الماليات	A.	Atropine	•
CANAL TO SERVICE	B.	Kaolin	
	(<u>C</u>)	Loperamide	
	D.	Bismuth subcarbonate	
	E.	Activated charcoal	
	~~		
38.	Ine	mu opioid receptors in the gastrointestinal tract are at least partly responsible	е
4	for t	ne antidiarrheal action of all of the following EXCEPT:	
\wedge		NO CENTRAL MORE	
	(V)	Atropine	
	,B. ~	Codeine	
, ,	√C.	Diphenoxylate The Art ng	
	_	-Doperating	
	Æ	Morphine	
39.	All	of the following are correctly paired EXCEPT)	
	· А.	Morphine – decreases propulsive movement of intestinal smooth muscle	
	`B.	Enterotoxigenic E. coli – common cause of traveler's diarrhea	
	(C)	Mineral oil – laxative effect depends on its hydrolysis subsequent to	
	*	absorption	
`	D.	Lactulose - osmotic laxative; may reduce levels of blood ammonia	
<u> </u>	E.	Magnesium citrate – saline laxative as well as a non-systemic antacid	
		·	
40.	Whi	ch of the following is the most important pharmacokinetic parameter that	
		rmines how a drug can affect the fetus of a pregnant woman?	
\wedge			
	(A)	Lipid solubility	
1-1		Binding affinity	
	B. Ç.	Binding capacity	
-	D.	G protein coupling	
	E.	Renal excretion	
	.	Notice exerction	

- An elderly man (80-yrs-old) is taking aspirin daily for arthritis. He has developed symptoms associated with NSAID-induced gastrointestinal bleeding. The side effects associated with NSAIDs are most likely to occur in geriatric patients because of:
- A. Reduced lean body weight in the elderly
- B. Reduced plasma volume
- C. Decreased total body water
- D. Decreased serum albumin concentration
- E. Decreased renal function
- Which of the following would LEAST characterize alcohols?
 - A. Are rapidly-acting
- B. Are bactericidal
- C. Denature protein
- Are effective antivirals
- E. Are highly volatile
- 43. Mechanisms of action of local anti-infectives may include:
 - A. \ Denaturation of cellular protein
 - B. \ Osmotic disruption of the cell
 - C. Interference with a metabolic process
 - All of the above
 - E. None of the above
 - Each of the following antiseptics/disinfectants is correctly matched with its accompanying characteristic **EXCEPT**:
 - A. Alcohols Most widely-used local anti-infectives
 - -B. Eugenol Analgesic action
 - C. Hexachlorophene Surgical scrub
 - D. Lysol A 50% solution of cresol
 - E. Guaiachol analgesic action; active ingredient in oil of cloves
 - Proposed mechanisms of xanthine action would LEAST likely include
 - A. Translocation of intracellular calcium
 - B. Blockade of adenosine receptors
 - C. Increasing the conversion of cyclic AMP to 5' AMP
 - D. Phosphodiesterase inhibition
 - Increasing accumulation of cyclic AMP

North Mary 12 K

46.	Whi	ch of the following drugs has the greatest beta2 -adr	energic recept	or selectivity?
A	A) B. C.	Albuterol Ephedrine Epinephrine		THE STATE OF THE S
.1	D. E	Isoproterenol Norepinephrine		
D	Prob	plems which develop as a result of therapy with loo y include:		uld LEAST
7		Hyperglycemia Hyperkalemia Hyperuricemia	alemi	playax
V V	D.	Hypocalcemia Hyponatremia	dem L	
48.	All	of the following statements are true for the actions	of prazosin EX	CEPT:
B	A B S CO	Blocks the pressor response to norepinephrine Acts as a sympathomimetic Selective for alpha-1 adrenergic receptors Produces only a modest reflex tachycardia Lowers systemic blood pressure	Syncore	ty.
49	Diet the f	tary control is advisable to avoid hypertensive crise following centrally-acting drugs?	s when taking	which one of
←	A. B. Q.D.	Desipramine Flumazenil Chlorpromazine Amitriptyline Isocarboxazid		
50.	Tole	erance to the anticonvulsant effect of which drug is	most likely to	occur?
B	A B D D.	Phenytoin Carbamazepine Diazepam		



56.	Deficiency of which vitamin results in scurvy?	.56	ectivity?
	A. Vitamin A		1
()	B. Vitamin B		10
	C.) Vitamin C		Cal
	D. Vitamin D		
. !	E. Vitamin E		a the stance
• 1	E. , Vitallill E	Contraction of	A-1684
57.	Which of the City		1.44
, 2.	Which of the following vitamins bind to a cytosolic receptor to	ncrease pro	otein T 😢 💤
	synthesis?	-	
$\Lambda \longrightarrow$,	1
1	A. Vitamin A and D.	,	t de l'
//\·	Vitamin B ₆ and B ₁₂		
/ /	C. Vitamin C and K	144 / 251	and the
	D. Vitamin E and M		
	E. Vitamin F and G	0.000	
	The state of the s		
58.	An excess of which vitamin causes imbalances in calcium metal	olism, par	ticularly
	dangerous for patients receiving digoxin?		1,000
T.		694	200 A
	A. Vitamin A		
	B. Vitamin B		*#1.27
/	C. Vitamin C	town Con-	the state of the s
548	(D) Vitamin D		
Ĭ.	E. Vitamin E		LANOT A
,		100	a attache
59.	Which of the following drugs induces DNA damage during cand	er chemotl	nerany?
		or chemon	crapyro
	A. 5-Flurouracil		
	B. Methotrexate		
	C. Vincristine		- 100 S
(6-Thioguanine		一 医外侧
	E. Cyclophosphamide		1. kg
	of elephosphalmac		
60.	A patient with a tumor cell burden of 10 ¹⁰ cells is treated by can		and the state of
	After the initial treatment, the number of tumor cells remaining	cer chemot	nerapy.
9	The die mital treatment, the number of tumor cens remaining	ıs	1-160000
<i>></i>	A. 0		100000000000000000000000000000000000000
	B. 10^2		
	C. 10 ⁴		
	D. 10 ⁶		
	(E.) 10 ⁸		

A Property of	•		•			
61	whic	h of the following is most likely to occ		يستم بالاست محملتك المار	fluorouracil?	
C. Jane	A. <u> </u>	Inhibition of dihydrofolate reductase	utrotream	20		
A CONTRACTOR OF THE PARTY OF TH		Use of allopurinol as supportive therap	ov	1. 42.		
		Inhibition of dŢMP synthesis		KINI MELL	· /\	
And the second		Exhibition of acute toxicity			. /	
	E.	Administration as a deoxynucleotide	, Ç - /		<u> </u>	سر
		radiffication as a deoxynaciconae	V 21	Sign		\
3 30 62	Whic	h of the following toxic side effects is	most associat	ad with the w	se of	
		rubicin?	most associat	ea willi life u		
	\	idolem:		•		
		Endometriosis		•		
的人		•	•			
		Cardiotoxicity				
12.00		Hepatotoxicity A. A.				
1-4-1-5		Bone marrow suppression	•		ſ	
	B/ -	Hyperglycemia				
	101			<u> </u>	. •	
0.5%	\ Unin	ostatic hypotension is most associated	with which cl	ass of antihyp	ertensive	
	arug					
// \		49 9 9 9				
H	(A.)	Alpha-1-adrenergic receptor blockers				
<i>y</i> (В.	Angiotensin receptor antagonists	•			
	C.	Angiotensin-converting enzyme inhib	oitors		1 1	
	D.	Thiazide diuretics			1	
		Beta-adrenergic receptor blockers	eads !			
× 15	\	•		3• *		
64.) Whi	ch of the following best describes the n	nechanism of	parathyroid h	ormone?	
	-			سرسوت سر	and a second	
	A.	Stimulates a tyrosine kinase-linked re		<i>F</i>	71 PCT	ر ودس
(Binds to intracellular receptors to enh		synthesis	The state of the s	Z.L
	CZ	Increases cyclic AMP)			•
	D.	Inhibits adenylyl-cyclase			,	
	E.	Stimulates phospholipase C	The state of the s	er a	·	
		· ·	اران پرده در معها در انتخاب مهمه در میمین			
_65	. Whi	ch of the following drugs requires biot	ransformation	to make it a	platelet ADP	
	rece	ptor antagonist?	The state of the s	•		
A	-		• •	Carl Lat	A Company of the	1
12	A.	Heparin		(·		-
1.)	(B)	Clopidogrel				
	C.	Aspirin				
	(SEC)	Warfarin Charles War Char				
•	Ē.	ε-Aminocaproic acid (Amicar)		•		
	-					

You are involved in a clinical trial to assess the utility of a novel agent to prevent dental plaque. You discover that this compound, AFF445, is a potent activator of calcineurin. AFF445 is most likely to interfere with the action of which of the following immunosuppressive drugs?

- A. Alpha interferon
- B) Cyclosporine
- C. Levamisole
- D. Prednisone
- E. Azathioprine "
- A number of immunosuppressive drugs function as cytotoxic agents.

 Which of the following statements correctly describes the immunosuppressive capacity of these drugs?
 - A. Cyclophosphamide is metabolized to mercaptopurine and destroys proliferating lymphocytes
 - B. Azathioprine interferes with folic acid metabolism and blocks the growth of plasma cells
- Cyclophosphamide is an alkylating agent which destroys expanding B and T cells
 - D. Rapamycin blocks nucleic acid synthesis and is cytotoxic for B cells
 - E. Tacrolimus blocks folic acid synthesis and is selectively cytotoxic for T cells

Extra care should be used when administering morphine to patients with all of the following medical conditions EXCEPT:

- A. Head injury
- B. Severe liver disease
- C. Kidney dysfunction
- D. Heart disease
 - Compromised respiratory function
- All of the following statements about entimicrobial drugs are true EXCEPT:
- A Penicillins are only active against bacteria that are no longer dividing Isoniazid is active against intracellular bacteria
- C. Tetracyclines are bacteriostatic
- D. Aminoglycosides are mainly active against gram-negative bacteria
- E. Erythromycin is mainly active against gram-positive bacteria

		三五十四十四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十
70. Whi	ch of the following antibiotic combinations is most likely to be antagonis	stic?
, , , , , , , , , , , , , , , , , , , ,		国际共和国的
\sim	Ampicillin + streptomycin	To the Court of Magnetic Party Care
P.		and the later of
	Sulfamethoxazole + trimethoprim	as In Hospital
C	-Ampicillin + tetracycline	THE PROPERTY.
D.	Ampicillin + clavulanic acid	Tar At a Player
E	Isoniazid + rifampin	215000000000000000000000000000000000000
,		A Charles
⊅1 ∧11 c	of the following are indications for the list of will in The Company	
71. All C	of the following are indications for the listed antibiotic EXCEPT:	The control of the co
1		A. M. M. E. S. L.
/\ (A. \)	First generation cephalosporins are useful in treating gram negative me	ningitis
//\ B.	Chloramphenicol is indicated for Salmonella infections	
C.	Ampicillin is a useful drug in treating dental infections	Costs Costs
D.	Totroppoling can be used to treet District 1: Continued to the start 1: Conti	a Dock
	Tetracyclines can be used to treat Rickettsial infections	
E.	Ciprofloxacin is useful in treating bone infections	and culture
\		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ZZ. Whi	ch of the following aminoglycosides is most resistant to inactivation by	A Market Market
amir	noglycoside-inactivating enzymes?	The state of
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	logifooside indervating chizymes:	the allthon
		workers to
) A	Streptomycin	in wir in in it.
) ,B.	Neomycin	
	Gentamicin	· 中国
	Amikacin	The second second
Ţ.	Tobramycin	
15.	roomanyem	The second second second
do 2777	1 6.1 6.11 . 1	The state of the s
73. Whi	ch of the following drugs is an estrogen receptor antagonist in breast tiss	ue, and
is m	ost useful in therapy of estrogen-dependent breast cancer?	The state of
A.	Finasteride	ASSESSMENT AND ASSESSMENT OF THE PROPERTY OF T
В.	Mestranol	The second second second
A SECTION OF SECTION O		
) C.	Diethylstilbestrol	THE PROPERTY OF THE PARTY OF TH
(D.)	Tamoxifen	Charles Charles
E.	Danazol	4 4 4
.\		to the biggstess
→ A 5-	year-old boy accidentally ingests a plant containing atropine. His sympt	and management of
7. 773	FACT likely to include	oms
S Care	LEAST likely to include	
1	This A.	
X .	Dry mouth	
B.	Dilated pupils and blurred vision	
TO CAR	Constipation	
1 C C		
7 P.	Fever and confusion	
(E.)	Hypertension and bradycardia	
111	A Land The	,
· Long		
/		

75.	An ove	erdose of acetaminophen is most likely to produce	
	А. Н	Hypertension and tachycardia	
		Delayed hepatotoxicity	•
t. IX		CNS depression leading to coma and death	•
		Metabolic acidosis	
1 2 1 K	E. R	Renal failure	
	Which	h afsha fallanning danga assa har inhihising angastanal ayushasia in	. aamaitissa
10		h of the following drugs acts by <u>inhibiting ergosterol synthesis in</u>	sensitive
	fungi?		
2 64	(A) A	Amphotericin B	
The state of the s		Griseofulyin	
		Itraconazole	T g
	D. 4	Valacyelovir	I .
	E.	Flucytosine	
		and the state of t	•
77.	Aneu	uraminidase inhibitor, useful in the treatment of influenza A and	B: ·
	A ~E	Vipux	2
1 -)		Zidovudine L(()	
1/		Foscarnet Ganciclovir	mount.
——————————————————————————————————————		Oseltamir	•
··· ·		Acyclovir	
	. .	Tioyoto Via	•
78.	Most	effective for chronic treatment of hepatitis C:	
	A 1	Lamivudine	•
		Nelfinavir	
Charles and the second		Amantadine	
7-4.		Ganciclovir + zidovudine	
		Interferon + ribavirin	
_			
79.	A 25-	-year-old woman is diagnosed with hypothyroidism. Treatment	should include
_	A.	Methimazole	
(Parathyroid hormone	
		Radioactive iodine (I-131)	
		Potassium	
	(E)	Levothyroxine	
	-		

A 50-year-old female with hyperglycemia is diagnosed with type-2 diabetes mellitus. Which of the following drugs is most effective by oral administration? NPH insulin A. Glyburide B. Propylthiouracil _Levothyroxine E. -Mestranol Which of the following best describes the mechanism of tolbutamide? Inhibits the synthesis of thyroid hormones Blocks estrogen receptors Blocks potassium channels to stimulate insulin release Inhibits alpha-glucosidase E. Directly inhibits gluconeogenesis Laxative action; rapid onset of effect; inactive prior to its hydrolysis in the intestine: Mineral oil A. B. Psyllium hydrophilic muciloid_ C. Magnesium citrate. D. Bran-Castor oil Adverse effects of fluoride, in its role as an anticaries agent, would LEAST likely include: A. \Hyperreflexia B. > Nausea, vomiting, diarrhea Cardiovascular stimulation Hypocalcemia D. E. Enamel fluorosis Long term therapy of which drug is most likely to cause osteoporos Prednisone Estradiol Alendronate Calcitonin J Eluoride-

85	Each of the following is correctly rexCEPT:	natched with its accompanying characteristic
A BOOK A	A. Common soaps - weak surface	ce-active agents
E III	B. Chlorhexidine - effective sur	
C	C Iodophors – promote rapid re	
	D. Hydrogen peroxide – weak a	
hart.	E. Parachlorophenol (1%) – roo	
The Na	2. 1 2. 1 2. 1 2. 1 3. 1 3	
86	The major reason for adding triam	terene to a hypertensive patient's daily
12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	hydrochlorothiazide therapy is to r	
	ny droom of the coupy is to i	The state of the s
	A. Bicarbonate	
16.1/2	B. Calcium	· · ·
一种	Chloride	
	Potassium	
	B. Sodium	
	B, Sodium	· · · · · · · · · · · · · · · · · · ·
07	Symptoms of the typical withdraw	val syndrome in an individual physically
Ser.	dependent on heroin is LEAST li	
· · · · · · · · · · · · · · · · · · ·	dependent on herom is LEAST in	kery to include
	A. Runny nose	otherer marking
Od.	A. Kullily Hose	1 com to the
	C Constipation Gooseflesh	
	E. Vomiting	
	D. Volliting	
88.	Which of the following agents is	most likely to cause systemic alkalosis when used
-00 .	orally as an antacid?	most fixely to eduse systemic discussions when about
	Ofally as all all acids	- W
	A. Basic-aluminum-carbonate	
	B. Magnesium hydroxide	
	C. Calcium carbonate	
	D. Aluminum hydroxide	
	E. Sodium bicarbonate	
~ 00	Which of the following outlinile	tio drugg is used against absence seizures when
89		ptic drugs is used against absence seizures when
	ethosuximide is not satisfactory?	
()	A Problemstein	
19	A. Fosphenytoin	
\bigcup	B. Valproic acid	
	C. Phenobarbital	
	D. Carbamazepine	
	E. Gabapentin	

90. All of the following statements regarding local anesthetics are true EXCEPT:



Bupivacaine acts on sodium channels to produce its pharmacological effects Lidocaine is contraindicated in pregnant women

Procaine is metabolized to p-aminobenzoic acid which elicits allergic reactions in some patients

Local anesthetics are used for infiltration block of sympathetic fibers for evaluation of the role of these fibers in peripheral vasospasm
Benzocaine is a topical anesthetic

91. A diet consisting of primarily polished rice, resulting in a deficiency in Vitamin Bi (thiamine), is most associated with



- B. Pellagra
- C. Pernicious anemia
- D. Beriberi
- E. Nodular cystic acne vulgaris

92. Which of the following drugs would inhibit DNA replication during cancer chemotherapy?

A. Cyfarabine

B. Vincristine

Vinblastine

D. Tamoxifen

E. Allopurinol

Match Type Questions (93 - 100)

For Questions 93 – 95:

For each of the numbered statements, select the single most appropriate lettered drug. You may use each letter once or not at all.

- A. Iron
- B. Naloxone
- C. Glucagon
- D. Atropine + pralidoxime
- E. -N-Acetylcysteine-

93. The antidote used to prevent or limit the toxicity of acetaminophen overdose

94. Reverses accidental poisonings with organophosphate cholinesterase inhibitors

95. The drug of choice to reverse the effects of an opioid overdose, e.g. heroin

For Questions 96 – 98:

For each of the numbered diseases, select the single, most appropriate lettered drug used in treatment. You may use each letter once or not at all

- A. Doxycycline
- B. Clarithromycin
- C. Ticarcillin
- D. Fluconazole
- E. Valacyclovir

96. Genital herpes

97. Oropharyngeal candidiasis in an immunocompromised patient

Pseudomonas B

For Questions 99 and 100:

For each of the numbered adverse reactions, select the lettered drug that is most likely to cause that reaction. You may use each letter once or not at all.

- A. Tetracycline
- B. Amphotericin B
- C. Amoxicillin
- D. Terbinafine
- E. Isoniazid

99. Permanent staining of teeth, when given to a child

100. Renal impairment