Name

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Mailbox # 38

# DENTAL PHARMACOLOGY FINAL EXAM April 15, 2002

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 exam booklet and answer sheet at the end of the exam. The exam booklet will be returned to you.

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

# Questions 1 - 92: Select the single, most appropriate answer.

1.	Opic	id analgesics produce all of the following effects EXCEPT:
ores.		Dominatory dominatory
	7	Respiratory depression Nausea
MIR.	10	
	(A)	Mydriasis
	. B	Constipation
W.	4	Sedation
2.	۸ 11 ه	of the following stales are
4.	FV	of the following statements are true with regard to gamma hydroxybutyrate
	EAC	EF 1.
	45	Depressant affacts are only and
*	7.B.	Depressant effects are enhanced when taken with ethanol
	(1)	Has a high therapeutic index
	AD.	Increases dopamine release by an indirect mechanism
	XE.	Effects can include drowsiness, dizziness and vomiting
	7	Chronic use can lead to physical dependence
3.	Whi	ch of the following procted landing has been involved to
		ch of the following prostaglandins has been implicated in causing pain ciated with inflammation?
	4550	clated with inhammation?
	A.	PGF <sub>2∞</sub>
-		PGl <sub>2</sub>
	B. C. D.	PGE <sub>2</sub>
	D	Prostacyclin
	E.	Thromboxane
		Tiboliooxalic
4.	All	of the following drugs have anti-inflammatory effects EXCEPT:
		the rollowing drugs have anti-initialiniatory effects EACEPT.
	JA.	Acetylsalicylic acid
	В.	Indomethacin
	C.	Naproxen
	D	Ibuprofen
	*E	Acetaminophen
	[11:1002	Acetaminophen  TARY 29 12 to YTR 30.  ch of the following substances is generally used in an emergency room  ng to induce vomiting?
5.	Whi	ch of the following substances is generally used in an emergency room
	setti	ng to induce vomiting?
	A.	Naloxone
	(B) C.	Syrup of ipecac
	C.	Sodium bicarbonate
	D.	Epinephrine
	E.	Charcoal

6	- Whic	h of the following vitamins is most likely to be hepatotoxic in man?
		of the following vitalinis is most likely to be nepatotoxic in man?
Heliatorica	ye Arm	Vitamin A refinal
J. B. A. L.	<b>B</b> .	Vitamin B <sub>1</sub> +h <sub>2</sub>
Y	on <b>G</b> is	Vitamin B <sub>2</sub> r. Oo
Mary Mr.	(D)	Vitamin Be niacif
All the	E.	Vitamin C & SCOTION
336.4	٠ ــــــــــــــــــــــــــــــــــــ	
20-47	Whic	ch of the following drug-drug interactions is the LEAST life threatening?
48.5		Management 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	A.	Monoamine oxidase inhibitors – phenylpropanolamines
		MAO inhibitors – Meperidine
14 J.	(6./	Opioids – Salicylates
	15	Cisapride – Erythromycin
- 100	W/L:	ah afaha fallamina da marangan da mara
· · · · ·	wnic	ch of the following drugs is most likely to accelerate gastric emptying
	maj	patient with gastroparesis following surgery?
	Α.	Sucralfate
. * .,	В.	
	D.	Magnesium hydroxide
	/B/	Omeprazole Redució
	(E)	Cimetidine Hospital Metoclopramide
	ارتي)	Metoclopramide
9.	All	of the following drugs will decrease the effects of cortisone EXCEPT:
	A.	Estrogen
•	₽.	Progesterone
•	e	Thyroxine
	(D)	Cimetidine
	E.	Phenytoin
•		
10	). All (	of the following statements about antihistamines are true EXCEPT:
	YA.	Diphenhydramine blocks H <sub>1</sub> -histamine receptors
	B.	Diphenhydramine is effective in treatment of hives caused by a
		food allergy
	YC-	Cimetidine blocks H <sub>2</sub> -histamine receptors
	J.D.	Ranitidine is effective in treatment of heartburn Zax ac
	(E.)	Diphenhydramine has antiandrogenic effects

	Α.	Megaloblastic	1110
	B.	Hemolytic	- 17 mars in
->	►C.	Hypochromic	1.56
,	D.	Aplastic	The Park
(	(E.)	All of the above	
,			100 Au Cald 100 10
12.	Allo	of the following drugs can be given orally for effective therapy of systemic	
	infec	etion EXCEPT:	
		A A A MARKET COME	2 7 PASSET
	A.	Erythromycin	
500	B_	Clindamycin	
	(	Streptomycin	- vent -
. (	D	Tetracycline	100
	E.	Chloramphenicol	
	٠.,	Cinoramphemeor	
13.	Sune	printections are more libely as the Control of the	
13.	of ar	erinfections are more likely to result from which of the following classes atibiotics?	
	01 41	idolotics:	1.35
	Δ	Narrow spectrum	TON THE R. L.
,	A.		100
	(B.)	Broad spectrum	+ **
	D.	Bactericidal	7.0
	E.	Those given parenterally	
	E.	Those excreted through the kidney	
1.4		S.1 C.11 .	A Allena
14.	All	of the following statements about penicillins are true EXCEPT:	The place
	• A.	Daviding C.	31 ** **
		Penicillin G is most active against gram negative bacteria	12 <b>3</b> 4 4 1 1
	2	Autolytic enzymes may be involved in the antibiotic effect of penicillins	And the Belleville Commencer
	B. C D.	Benzathine penicillin G is a repository or storage form	
	D.	Penicillins are excreted unchanged in the urine	
	E.	Penicillin allergy is the main adverse effect of penicillins	A AND SHEET
1.5	1		
15.	Ison	iazid acts to kill M. tuberculosis by which of the following mechanisms?	March College College
,	A.	Interfering with pyridoxine-dependent reactions	Triansity -
. (	<b>B</b> .)	Interfering with bacterial cell-wall synthesis	
	C.	Inhibiting DNA-dependent RNA polymerase	e de la companya del companya de la companya del companya de la co
	D.	Altering membrane permeability	
	E.	Inhibiting 30S ribosome function	
			x0 11

3

Anemia due to iron deficiency is typically

11:

16.°	A dr	ug with elimination half-life of 20 hours will be effectively eliminated from
4	the p	patient in
	Onio	437
AND THE RESERVE		10 hrs 20 hrs
Bullion of	B.	20 hrs
	C.	40 hrs
3 9 9 9 9 9 7	D.	60 hrs
MASC 9	E)	90 hrs
17.	In ca	incer chemotherapy, a great advantage of surgery or radiation is that they
		of surgery of radiation is that they
Ac. 2	A.	Change the interval between chemotherapeutic treatments
	B.	Eliminate the need for intensive chemotherapy
the state of	(C.)	Reduce tumor cell number thereby for the color of the col
THE C	D	Reduce tumor cell number thereby facilitating the log-kill hypothesis
Old Annual Control		Modulate the number of cycling versus non-cycling cells during chemotherapy
	E.	Inhibit DNA repair to potentiate DNA damage
10		
18.	All c	of the following are attributes of digoxin EXCEPT:
	1	
(	A. B.	Blocks parasympathetic (vagal) outflow
		Increases cardiac automaticity
	te.	Prolongs the P-R interval of the electrocardiogram
>	D.	Offen causes nausea
	E.	Increases the cardiac output in the patient with congestive heart failure
10		· · · · · · · · · · · · · · · · · · ·
19.	Whic	ch of the following is the major cellular effect of alkylating agents?
	۸	
-	A.	Inhibition of thymidylate synthase 5 FU
/	∕₿.	Reduction of dihydrofolate reductase W
	<u>C</u> .	Binding to microtubules
(	D.)	Induction of DNA damage
`	E.	Inhibition of P-glycoprotein synthesis 6-parts
20.	5-Fh	
20.	on my	norouracil, through a covalent interaction, inhibits the activity of which
	enzy	me?
	Α	DNA polymorese
/	(R)	DNA polymerase
. (	(B)	Thymidylate synthase
	C.	Hypoxanthine-guanine phosphoribosyl transferase
	D.	DNA ligase
	E.	Ribonucleotide reductase

21.	All o	f the following conditions have been attributed to excessive alcohol	18.4
	consu	amption EXCEPT:	
	Α.	Cirrhosis of the liver	
	B.	Korsakoff's psychosis	
	C.	Fetal alcohol syndrome	The Market Program
1	D	Congestive heart failure	and the same of th
. (	(E,)	Coronary artery disease	
. `			
22.	D-Tu	abocurarine acts at the neuromuscular junction by	A in
	A.	Releasing excessive amounts of acetylcholine	*
	B.	Preventing glycine release	
-	C.	Binding reversibly to the nicotinic receptor with a 30-60 minute duration	
	D.	Binding irreversibly to the nicotinic receptor	
1	E.	Blocking acetylcholine release	e al Green
. (	5	La grand S. Aldri our transport of Land Aldridge State (1988)	
23.	Park	insonism is best treated by	300 (F) Value
25.			100
	A.	Increasing acetylcholine levels in the central nervous system	
2019	B_	Increasing acetylcholine levels in the plasma	A second second
`	$\langle c \rangle$	Increasing dopamine levels in the central nervous system	
	D	Increasing dopamine decarboxylase activity in the plasma	All Comments
	E.	Both decreasing dopamine and increasing acetylcholine levels in	10 mm
	i	the central nervous system	
		ap commanded by blom	A Prince
24.	Whi	ich barbiturate has the most rapid onset and shortest duration of action	and the parties of
<i>–</i> ···.		owing a single hypnotic dose?	and mulcons
	A.	Pentobarbital	
	В.	Secobarbital	
	C.	Phenobarbital	
	D.	Mephobarbital	
	(E)	Thiopental	
		The state of the s	A Arrange
. 25.	Imr	naturity of a number of physiological functions can lead to differing	
		rmacokinetic characteristics of drugs administered to a newborn infant	1. 经有效
		apared to an adult. Immaturity of which of the following factors would	100000000000000000000000000000000000000
		d to reduce the half-life of a drug in an infant compared to that in an adult	?
	, car		
	A	Glomerular filtration rate	
	B	Renal active secretion of acids and bases	174
_	→ C	Renal passive reabsorption of drugs	
	D-	Hepatic drug metabolism	
	F.	Bile secretion	
	<i></i> .	Ene section	

5

		A.	Poor nutrition	N. H.
		B.	Polypharmacy	
		C.	An age-related decrease in the concentration of plasma proteins	
!	(	(D)	An age-related increase in salivary secretion	Constitution of
	,	É.	An age-related decrease of renal blood flow	27
			11	
	27.	A we	eakly-acidic drug enters the urine by glomerular filtration and active transpor	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
		in the	e proximal tubule, and can be reabsorbed by passive diffusion. If the pH of	
		the to	abular fluid is altered from pH 6 to pH 4 by administration of ammonium	STEP 18
		chlor	ride, how would you expect the renal clearance of the drug to be affected?	
				THE STATE OF
		A.	Increased	3. 1
		B. '	Unchanged	/ State and Co
	1	(C.)	Decreased	ALCOHOLOGY
	(			
	28.	Stim	ulation of which of the following receptors is associated with mydriasis and	
		vaso	constriction?	100 120 100 100 120
٠				
	(	A	Alpha-1 adrenergic	100
		B. '	Beta-1 adrenergic	* A **
		C.	Beta-2 adrenergic	
		D. '	Muscarinic	11-7.
		E.	Dopaminergic	e Physical
				" 撒尔多
	29.	All c	of the following statements about pilocarpine are true EXCEPT:	1000
	/	A.	Acts by stimulating muscarinic receptors	
	6	B. C.	Causes xerostomia	4
		D.	Reduces intraocular pressure in patients with glaucoma	1114
		E.	May cause abdominal cramping and diarrhea	
		Ľ.	Causes miosis and blurring of vision	
	30	Whi	ch of the following drups is west of 1	
	<i>3</i> 0.	a car	ch of the following drugs is most useful as a mouthwash for treatment of adidal-infection of the mouth?	
	•		inductable thought	2500,000
		A.	Acyclovir	Marie Tropic
		B.	Tolnaftate	
	(	(c)	Nystatin	
	,	D.	Terbinafine	
		E.	Zidovudine	
		10		

When administering drugs to elderly patients, all of the following are complicating factors EXCEPT:

26.

31	6 All Whic	th of the following drugs is most likely to produce renal impairment?
THE REAL PROPERTY.	· A	Amphotericin B  Fluoritosine
	LAX-	Amphotericin B MATONIC
A CONTRACTOR	- <b>™</b> B.	1 lucytosme
E		Terbinafine
	D;	Miconazole
	₹ E.	Griseofulvin
	ستتضعب إلى	
7 32	. A ne	uraminidase inhibitor effective in reducing the duration of symptoms fron
	influ	enza A and B:
W. A. T.	7 7 177	
- A-1	A.	Amantadine
	(B.)	Zanamivir
1001	₹.	Acyclovir
	D.	Trifluridine
14 Table 1	Ε.	Lamivudine
33	. All c	of the following statements about zidovudine are true EXCEPT:
e de partie à		
	YA.	Useful in the treatment of HIV
2 x y 2 x x x x x		ls a reverse transcriptase inhibitor
	C.	ls combined with lamivudine for an enhanced effect
	D.	Suppresses the bone marrow, producing anemia
	(E)	Is combined with interferon for treatment of Hepatitis B
		' repaires b
34	1. Whi	ch of the following statements best describes the mechanism of action of
		clovir?
•		
	-> A	Metabolized to its triphosphate to inhibit herpes DNA polymerase
•	$\left( \mathbf{R} \right)$	Reduces the adsorption and uncoating of influenza A
		Is a reverse transcriptase inhibitor
	D.	Is a protease inhibitor
	ور E.	
	E.	Enhances phosphorylation of elongation initiation factor
3:	5. Effe	ective therapy for chronic treatment of hepatitis C:
•	_	
	A.	Amantadine
:	В.	Zidovudine + Lamivudine
•	C.	Nelfinavir
	(D)	Interferon + Ribavirin + RSV
•	Ĕ.	Zanamivir + Oseltamir

36. All of the following are true about propylthiouracil EXCEPT:
and wing are true about propylthiourded pro-
Inhibits production of thyroid in the treatment of hyperthyroidism
Useful in the treatment of hyperthyroidism  Causes gastrointestinal upper
Composition of thyroid home
Causes gastrointestinal unset and 1:
Causes gastrointestinal upset and skin reactions  Crosses the placenta and can be formally foldising the formal skin reactions
Crosses the placenta and can be found in breast milk  Has an immediate (within 24 hours) areas.
37. All of the following are true
about levothyroxine FXCERT
B. High doses can produce tachycardia  Has a thermogenic ber
C. Has a thorn produce tachycardia
C. Has a thermogenic effect
THE CASES hard I
Is the preferred treatment of primary hypothyroidism  38. Useful in the
38. Useful :- 4
Oseful in the treatment of hypercalcania
38. Useful in the treatment of hypercalcemia of malignancy and Paget's Disease:  A. Pamidronate
A. Pamidronate 10 to 10 Paget's Disease:
B. Parathyroid hormon
LSuadioi
D. Levothyroxine
E. Glipizide
39. Which of the falls
A D:
39. Which of the following best describes the mechanism of action of Vitamin D?
B. Binds to a tyrosine kinase-linked receptor  B. Binds to a nuclear receptor
B. Binds to a nuclear receptor to enhance gene expression D. Binds to the chloride ionophore
C. Binds to the chloride ionophore  D. Binds to a G-protein in the chloride ionophore
Dilus 10 a (1-protoin 1: 1
E. Enhances sodium influx
Which of the following drugg and
tract; chronic use as an immunity absorption from the
40. Which of the following drugs reduces calcium absorption from the gastrointestinal aseptic necrosis of the hip?
of the hip?
A: Ethinyl estra 1: 1
B Prednisone C. Calcitriel
C. Calcitriol
D. Parathyra: 11
- aduly101d hormone
E. Tolbutamide

19	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
41. All of the following are true about insulin EXCEPT:	
41. All of the following	and the state of t
Stimulates a tyrosine kinase-linked receptor	44.16
Stimulates a tyrosine kinase-iniked receptor	
(B) Overdose produces hypoglycemia	
C. Secretion is stimulated by glipizide	and the same of th
D. Its action is enhanced by rosiglitazone	
→ E. Its action is enhanced by co-administration of oral contraceptives	
wife of the print with the control of the control o	
42. Most useful for intravenous administration in the treatment of emergency dia	betic
coma:	
the state of the s	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
A. R'egular insulin	
(B.) NPH insulin	
C. Ultralente insulin	to e
D. Glyburide	To a state of
E. Acarbose	110.2
- The Control of th	
43. Which of the following drugs is useful in the treatment of Type 2 diabetes m	nellitus
43. Which of the following drugs is useful in the treatment of Type 2 diabetes in	
by altering potassium efflux, thus stimulating insulin secretion?	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
A. Rosiglitazone	to the first of
B Glyburide	A Principal of the Control of the Co
C. Metformin	to the state of the state of the
The state of the s	
	Cont.
E. Methimazole	
The FYCEPT.	
44. All of the following statements about ethinyl estradiol are true <b>EXCEPT</b> :	A Minney
and the second s	A POMOS
A. Binds to a nuclear receptor to enhance gene expression	
B. Increases the risk of venous thromboemboli	
C. Increases high density lipoproteins	1.00 (
D Causes osteoporosis  E. Combined with a progestin for use in oral contraceptives	
E. Combined with a progestin for use in oral confideephives	
11 Jan effective in the treat	ment of
45. A nonsteroidal competitive estrogen receptor blocker effective in the treatment	IICII CA
breast cancer:	A SAN A SAN THE SAN TH
A. Mestranol	
	Jan 1947 William
C. Danazol	
(D) Tamoxifen	
E. Mestranol	2010.

	i.			
46.	10			Mi.
40.	Age	ent which inhibits the formation of gamma-carboxyglutama	ite residues in	N.
	coa	gulation factors:	ite residues in	
				100
	A.	Heparin		
	B	Aspirin		-
	(C)	Ticlopidine		
	D.	Streptokinase		*
_	E.	Warfarin Sound	· Land Company	1
		Or or Hier.	1996 1996	a.
47.	The	chief diagel		į.
, ,,,	. 1110	chief disadvantage of nitrous oxide as a general anesthetic	is:	盛
			TERMS TELESCOPE TO	
-	A.	Prolonged recovery time due to retention in fat	The state of the s	11
, (	$\bigcup_{\mathbf{B}}$ .	Poor analgesic		
1000	C.,	Low potency (high MAC)		級
	D.	Slow induction		
	E.	Excessive relaxation of skeletal muscles		B
2		St. 3		B
48.	The	rate of induction with inhalational general anesthetics is m		10
	_	marational general anesthetics is m	ost closely related to:	Ž.
	(A.)	Blood solubility		艭
,	B.	Lipid solubility	(A)	題
		Woter calculation		*
•	D.	Water solubility		1
		Chemical stability		6
	E.	Boiling point		
40				
49.	Whi	ch of the following is the mechanism of action for the antih	vnerlinidai. 1	Ø
	prav	astatin?	sypempidemic arug,	4
				150
·	A.	Inhibition of cholesterol endocytosis		
	B.	Activation of cholesterol endocytosis		1
	C	Inhibition of lipoprotein lipase		
1	D.	Inhibition of HMG-CoA reductase	Carried Control	
(	1	Rinding to bile soids in the	4.00	
	~•	Binding to bile acids in the gastrointestinal tract		
50.	W/h:			1
50.	AA 1110	ch of the following drugs can cause gingival hyperplasia?		

- A. B.

- C. D.
- Lidocaine Bretylium Quinidine Amiodarone Phenytoin

of Villam Ad	District Street	A STATE OF THE STA
511	Subse	equent to a dental procedure, an eight-year-old patient was instructed to use
AND IN		spoonful of liquid medication diluted in a glass of water as an oral rinse once
		for seven days. The total amount of the liquid medication used was
	26	
	A	15 mL 5 m L
	(B)	35 mL 1
	Č	15 mL 5 mL 35 mL 70 mL
-	AS CONTRACTOR OF THE PARTY OF T	105 mL
100	COLD PRODUCT	
	<b>E.</b> 11	240 mL
	11 11 11 11 11 11 11 11 11 11 11 11 11	lenge A and
52.	Actio	ons of xanthines include all of the following EXCEPT:
nut 1	A.	Central nervous system stimulation
	B.	Myocardial stimulation
200	C.	Bronchodilation
141.	D.	Diuresis
	E.	Decrease in cerebral vascular resistance
(	المسك	
53.	Whi	ch of the following drugs has the greatest degree of beta-2 adrenergic receptor
		ctivity, is an effective bronchodilator, causes tremor with oral use, and has
		e cardiac stimulation?
	muse	i unce
	Α.	Zileuton
	_	Albuterol
	B) C.	
		Phenylephrine
	D.	Beclomethasone
	E.	Aminophylline
	_	
54.		erapy with this drug may result in the development of hypokalemia, erglycemia, hyperuricemia and hypercalcemia:
	hyp	erglycemia, hyperuricemia and hypercalcemia:
		Marie Company of Art Sall A Sale Company of Art Sal
	A.	Triamterene
	B.	Bumetanide / Ca
	C.	Theophylline
	D.	Ethacrynic acid
	(E)	Hydrochlorothiazide
	~	
55.	. Mo	st effective antidiarrheal action:
		Loperamide
	B.	Lactulose
	В. С.	
		Cascara sagrada
	D.	Kaopectate
	E.	Bismuth subcarbonate

56. All of	the following are true about caries EXCEPT:
Philips Inc.	
B	Cavitation exists only in the presence of poor nutrition
	Fluoridation of drinking water to concentrations higher than two parts per million may cause enamel fluorosis
11 30 11	Watery diets seem to cause negligible series
	I here is a direct correlation between fluoride concentration in drive.
41941794	· · · · · · · · · · · · · · · · · · ·
	As little as 1 part per million of fluoride in drinking water leads to
57. Attrib	utes of nitroglycerin include all of the following EXCEPT:
ADAM STATE OF THE	Headache
71 (1) (1)	Dilation of arteries
C.	l'achycardia e e e e e e e e e e e e e e e e e e e
	ncrease in oxygen consumption
<b>)</b>	Sublingual effectiveness
58. All of	the following characterize alcohols EXCEPT:
(A) I	Effective against viruses, spores and fungi
<del></del>	widely used local anti-infectives
	Highly volatile Denature protein
E. I	Bactericidal
50 14-41	
33. Metny	lated derivatives of phenol include all of the following EXCEPT:
<b>/</b> \	lexachlorophene
В. (	Guaiacol
	Cresol
_	ysol Jugenol
~. <u>L</u>	, agenor
. 60. Mecha	nisms of action of local anti-infectives may include:
A. C	smotic disruption of the cell
B. II	iterference with a metabolic process
ىل بىر	enaturation of cellular protein
	ll of the above one of the above
-	THE WAS MOUTE

	Which of the following drugs is a centrally acting alpha-2 adrenoceptor agonist, producing dry mouth, drowsiness and bradycardia?	Alb
	A. Mirtazapine B. Terbutaline C. Clonidine D. Prazosin E. Guanethidine	ifabet <u>ic</u>
	Which of the following drugs is useful in the treatment of hypertension, but cause bronchoconstriction?	it may
· (	A. Albuterol B. Propranolol C. Phentolamine D. Amphetamine E. Prazosin	
63.	Diazepam is suitable for all of the following indications EXCEPT:	
-	Status epilepticus  B. Obsessive-compulsive disorder  Preoperative medication  D. Generalized anxiety disorder  E. Acute alcohol withdrawal	
04.	A selective serotonin reuptake inhibitor used as an antidepressant:  A. Thioridazine	
	B. Tranylcypromine C. Oxazepam D. Paroxetine poxil? E. Ephedrine	
65.	Which of the following antiepileptic drugs may be used for absence seizu when ethosuximide is not satisfactory?	res Alexander
	A. Carbamazepine  B. Valproic acid  C. Gabapentin  D. Fosphenytoin  E. Phenobarbital	***

A Fentanyl B Methadone C. Diazepam D. Oxycodone E. Dextropropoxyphene  68. Adverse drug reactions have been reported to occur with which one of the following combination of agents?  A. Morphine and propranolol B. Codeine and digoxin C. Oxycodone and tranyleypromine D. Fentanyl and warfarin E. Meperidine and isocarboxazid  69. Drug-drug interactions can be produced by:  A. Competition for the same receptor B. Blockage of the receptor C. Alteration of receptor properties D. Alteration of the number of receptors E. All of the above	B. Clonidine Hydrochlorothiazide D. Reserpine E. Propranolol  67. Which of the following compounds is FDA approved as a therapy in maintenance programs for heroin addiction?  A. Fentanyl B. Methadone C. Diazepam D. Oxycodone E. Dextropropoxyphene  68. Adverse drug reactions have been reported to occur with which one of the followin combination of agents?  A. Morphine and propranolol B. Codeine and digoxin C. Oxycodone and tranylcypromine D. Fentanyl and warfarin E. Meperidine and isocarboxazid  69. Drug-drug interactions can be produced by:  A. Competition for the same receptor B. Blockage of the receptor C. Alteration of receptor properties D. Alteration of the number of receptors E. All of the above  70. Drugs from which one of the following classes of antibiotics may require a supplement of Vitamin K to avoid blood clotting problems caused by the antibiotic:  A. Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins	5 . Su	an antihypertensive drug with both diuretic a	and vasodilating action is	-17
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C. Oxycodone and tranylcypromine D. Fentanyl and warfarin E. Meperidine and isocarboxazid  69. Drug-drug interactions can be produced by:  A. Competition for the same receptor B. Blockage of the receptor C. Alteration of receptor properties D. Alteration of the number of receptors E. All of the above  70. Drugs from which one of the following classes of antibiotics may require a supplement of Vitamin K to avoid blood clotting problems caused by the antibiotic  A. Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins	C. Oxycodone and tranylcypromine D. Fentanyl and warfarin E. Meperidine and isocarboxazid  69. Drug-drug interactions can be produced by:  A. Competition for the same receptor B. Blockage of the receptor C. Alteration of receptor properties D. Alteration of the number of receptors E. All of the above  70. Drugs from which one of the following classes of antibiotics may require a supplement of Vitamin K to avoid blood clotting problems caused by the antibiotic.  A. Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins		Codeine and discovin		
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A Fluoroquinolones  B. Penicillins  C. Aminoglycosides  D. Cephalosporins	Supplement of Vitamin K to avoid blood clotting problems caused by the antibiotic's  A. Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins	70 -			
A. Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins	A Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins		ugs from which one of the following classe	s of antibiotics may require	
A Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins	A Fluoroquinolones B. Penicillins C. Aminoglycosides D. Cephalosporins	su	pplement of Vitamin K to avoid blood clotti	ing problems caused by the	a ontibiotic
B. Penicillins C. Aminoglycosides D. Cephalosporins	B. Penicillins C. Aminoglycosides  → D. Cephalosporins			C 1-1-1-10 caused by the	2110101110
C. Aminoglycosides  D. Cephalosporins	C. Aminoglycosides  D. Cephalosporins	A	Fluoroquinolones		3414
D. Cephalosporins	→ D. Cephalosporins	/B.			
		· C.	Aminoglycosides		
		-	Cephalosporins		
		E.		neg men mengeral	
			, and the second		

.72.	Which of the following antibiotics is associated with an interaction with	THE VEICE
	theophylline that may give rise to seizures?	1494
		April 1
	A. Amoxicillin	1
. (	B. Ciprofloxacin	A Company of the Comp
	C. Vancomycin	a de la
	D. Clindamycin	
	E. Tetracycline	
	appropriate and to the property of the most of the policy of the tollowing	2011
73.	A patient with a tumor cell burden of 10 <sup>10</sup> cells is treated with cancer	The same of the same
	chemotherapeutic agents. According to the Skipper hypothesis, after the first	
	treatment the number of tumor cells remaining is:	44
	,	
	A. 0	
	B. $10^2$	No. of the state
	C. 10 <sup>4</sup>	A Salara Para
	D. 10 <sup>6</sup>	
. /	(E.) 10 <sup>8</sup>	as the state of the second
,		NAME OF STREET
74.	All of the following are involved in the mechanism of methotrexate as a cance	ep 10 miles
	chemotherapeutic agent EXCEPT;	
		Lower of L
	A. Exhibition of chronic toxicity	
	B. Binding to dihydrofolate reductase	ANTHE L
	C. It is not metabolized by salvage pathways	
	D Affects spindle formation E. Inhibition of dTMP synthesis	Militer Party
	E. Inhibition of dTMP synthesis	AND ENGLISHED AND TO SHARE THE SHARE
	and the street of the street o	and Maria
75.	All of the following statements concerning vinblastine are true EXCEPT:	· Standay and the
_	→ A. It is an antimetabolite	
	B It affects spindle formation	
	(C.) It is a cell cycle specific drug	100
	D. It is an alkaloid	
	E. It blocks cells during mitosis	
	Sara Sara	

All of the following statements about antibiotics are true EXCEPT:

Penicillins are active against bacteria that are dividing

Tetracycline is effective in treating bone infections Non-fluorinated quinolones have little systemic activity

Erythromycin is mainly active against gram-positive bacteria

against intracellular bacteria

Rifampin reaches high concentrations in mammalian cells and is active

A.

B.

76.	What is the most reliable means of determining the appropriate dose of a drug to be given to a child of 1-2 years of age?
	A. Ratio of body surface area to that of an "average" adult B. Ratio of total body weight to that of an "average" adult From tables of children's dosages D. Ratio of body weight, corrected for fat content, to that of an "average" adult E. Ratio of body surface area to that of a ten-years old child
77.	All of the following statements about local anesthetics are true <b>EXCEPT</b> :
	<ul> <li>A. In general, among all types of nerve fibers. A-delta and C fibers are most sensitive to the action of local anesthetics</li> <li>B. Mepivacaine is metabolized by liver microsomal enzymes</li> <li>C. Benzocaine can only be used topically</li> <li>D. The purpose of including epinephrine in preparations of local anesthetics is to decrease renal excretion of the drugs</li> </ul>
	E. Seizures induced by local anesthetics can be treated with diazepam
78.	When a drug is taken enterally, the most important factor in determining where in the gastrointestinal tract most of it will be absorbed by passive diffusion is which of the following?
<del>-1</del>	A. pKa of the drug B. Total surface area of the various regions of the gut pH of the gut contents D. Whether it is a weak acid or weak base E. Gastric emptying time
79.	Therapeutic uses of atropine and related drugs include all of the following <b>EXCEPT</b> :
(	A. To dry salivary secretions  B. To prevent bronchospasm and laryngospasm In the treatment of motion sickness In the treatment of tachyarrhythmias  E. To reduce gastrointestinal spasm
80.	Which of the following best describes the mechanism of action of fluconazole?
	<ul> <li>A. Binds to ergosterol in fungal cell membranes</li> <li>B. Binds to tubulin to disrupt spindle formation in cell division</li> <li>C. Metabolized to its triphosphate form to inhibit viral DNA polymerase</li> <li>D. Inhibits thymidylate synthetase</li> <li>E. Inhibits ergosterol synthesis</li> </ul>

8	1. l	Jsefi	al by oral administration in the treatment of onychomycosis (toe nail fungal
	i	nfec	tion):
		<b>4.</b>	Natamycin Trifluridine Tolnaftate  Leventaline
	* '		Tolnaftate Levbutan
1	ر جي	D.	Itraconazole
		Ε.	Amphotericin B
8	<b>2.</b> ]	Most	useful agent for the treatment of a cytomegalovirus infection:
		A.	Trifluridine
		B	Amantadine
		Ç,	Ganciclovir
		<b>D</b> .	Nelfinavir
		E.	Ribavirin
8	33.	Whi	ch of the following best describes the mechanism of levothyroxine?
		A.	Binds to a cell membrane receptor to enhance sodium influx
		B_	Binds to a G-protein-linked receptor to increase adenylyl cyclase
••		<b>C</b> /	Binds to a nuclear receptor to enhance gene expression
1.0		D.	Binds to a tyrosine kinase-linked receptor
		E.	Binds to a G-protein-linked receptor to reduce adenylyl cyclase
8	84.	Mos	st effective drug in the treatment of thyroid cancer:
		A.	Methimazole
٠	_	<b>B</b>	Propranolol
		C.	Potassium iodide
	(、	D)	Radioactive iodide (I-131)
		E.	Liothyronine
,	85.	End	logenous hormone useful in the treatment of Paget's disease, hypercalcemia osteoporosis:
•		`	
	7	A.	Calcitonin
*		سبكلر	Prednisone Vitamin D Calcifold
		*	
		٧,	Parathyroid hormone Insulin
	_	٠ـــــ	IIISWIIII

	86. w	hich of the following drugs is best for once daily administration in the treatment
1 200	of	Type I diabetes mellitus?
	A B. C.	Glyburide Repaglinide Lispro insulin NPH insulin Metformin
	<b>6</b> 7; √√i	The trotton in the same of the
	87. A se	partial estrogen receptor agonist used to induce ovulation by increasing GnRH cretion:
	A	Mifepristone
OU BIT	(B.	Clomiphene
	D.	Levonorgestrel Flutamide
	E.	Mestranol
	88. W	hich of the following drugs suppresses gonadotropin release and is therefore eful in the treatment of prostate cancer?
	A	Leuprolide,
	В. С.	Flutamide
	D.	Clomiphene Nandrolone
	E.	
•	89. W	hich of the following is the major mechanism coupling the receptor to agonist pendent activation of cells?
	(A B.	Phosphorylation of serine, threonine, or tyrosine residues ADP ribosylation
	C.	- million of gratalitate lesiques
	D. E.	Phosphorylation of glutamate or aspartate residues Carboxylation of serine, threonine or tyrosine residues

90.	Whic	h of the following regarding caries activity is true?
,	, , , , , , ,	of the following regulating earles activity is true:
	A.— B.—	At a pH higher than 7.5, enamel begins to demineralize  There is an indirect correlation between consumption of refined carbohydrates and caries activity
! /	C.	Disaccharides lead to the formation of caries which are less active than is the case with monosaccharides
	D./	There is a direct correlation between consumption of refined carbohydrates and caries activity
'	E.	There is <u>no</u> correlation between consumption of refined carbohydraes and caries activity
91.	All	of the following statements about prevention of dental caries are true EXCEPT
٧	A.	Topical application of a 2% solution of chlorhexidine inhibits growth of human dental plaque
\	B.	Fluoride has a wide margin of safety
	C.	Osteosclerosis of the pelvis may be caused by drinking water with high
		concentrations of fluoride (18ppm)
. ~	D	If antimicrobials are used, it would be better to use combinations so as to minimize the development of resistance
	E. /	If antimicrobials are used, they should be those which are readily absorbed
	<b>ン</b> /.	from the gastrointestinal tract
92.		of the compounds are correctly matched with their accompanying characteristic CEPT:
		$\leq (\sigma_{i,j})$
(	A. B.	lodophors - rapid release of iodine
		Hydrogen peroxide – weak antiseptic
	C.	Common soaps – weak surface active agents
	D.	Chlorhexidine – protein denaturation
	E.	Parachlorophenol (1%) – root canal antiseptic

#### Questions 93 thru 96: Match-type

For each of the numbered statements and an incident	
For each of the numbered statements, select the single most appropriate lettered drug	- 11
You may use each letter once, or not at all.	•
. The state of the control at all.	

- \_A. Methicillin
- B. Clavulanic acid
  - C. Nalidixic acid
- D. Isoniazid
  - E. Minocycline
- 93. Drug with no antibiotic activity, but inhibits beta-lactamases
  - 294. Drug with no systemic antibiotic activity, but acts as a urinary antiseptic
  - 95. Beta-lactamase resistant penicillin
  - 96. Antibiotic used in combination therapy for tuberculosis

#### Questions 97 thru 100: Match-type

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

- A. Azathioprine
- B. FK506
  - C. Muronab
  - D. Interferon alpha
- E BCG
- n 97. Cytokine approved for treatment of hairy cell leukemia
  - § 98. Adjuvant that stimulates the immune system; used in treatment of bladder cancer
- B Substance that inhibits Interleukin-2 production by T cells
- A 100. Antimetabolite prodrug that is metabolized to its active form

#### **END OF EXAM**

Name:	
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/B

### Answer Key

## Dental Pharmacology Final April 15, 2002

A CONTRACTOR OF THE PARTY OF TH			••	·	<u> </u>
1.	<u> </u>	21. E	41. E	61. C	81. D,
2.	B	22. C	42. A	62. B	82. C
3.	<u>ر</u>	23. C	43. B	63. B	83. C
4.	E	24. E	44. D	64. D	84. D
5.	B	25. C	45. D	65. B	85. A
6.	A	26. 'D	46. E	66. C	86. D
7.	<u></u>	27. C	47. C	67. B	87. B
8.	E	28. A	48. A	68. E	88. A
9.	D	29. B	49. D	69 E	89. <i>A</i>
10.	E	30.	50. E	70. D	90. D
11.	<u></u>	31. A	51. B	71. C	91. E
12.	C	32. B	52. E	72. B	92. A
13.	B	33. E	53. B	73. E	93. B
14.	A	34. A	54. E	74. D	94. C
15.	B	35. D	55. A	75. A	95. A
16.	E	36. E	56. A	76. C	96. D
17.	C	37. A	57. D	77. D	97. D
18.	A	38. A	58. A	78. B	98 E
19.	D	39. B	59. A	79 D	99. B
20.	B	40. B	60. D	80. E	100. A