Questions 1 – 90: Select the single, most appropriate answer.

~-			appropriate and the second		
1.	Which of the following drugs is most likely to produce constipation, urinary retention, mydriasis, tachycardia, dry mouth and dry eyes?				
		Atropine Bethanechol Physostigmine Propranolol Morphine	SE		
2.	Whi	nich of the following drugs is mo	st associated with production of nephrotoxicity?		
	A. B. C. D. E.	Ketoconazole Flucytosine Amphotericin B Griseofulvin Terbinafine	SE		
3.		nich of the following drugs is use duce hepatotoxicity?	ful in the treatment of onychomycosis, but may		
	C.	Miconazole Amphotericin B Zidovudine Natamycin Terbinafine	- Used for onythomycosis.		
4.		didiasis?	ful as a mouthwash in the treatment of oral		
		Nystatin Griseofulvin Tolnaftate Amantadine Penicillin G	Duh! your should know this in your sleep.		
5.	Whi	nich of the following statements l	est describes lamivudine?		
	A. B. C. Ø . E.	Is most useful in the treatment Its metabolite inhibits herpes I Is a neuraminidase inhibitor, e Is an inhibitor of reverse trans Is an inhibitor of ergosterol sy	ONA polymerase ffective in treating influenza A		
		-HIV-used w/ 71	dovudine		

Valacyclouir A prodrug, metabolized to its triphosphate which inhibits herpes DNA taken a rally to a cyclouir polymerase: leads to reduction in vival DNA pase Nelfinavir treats herpes A. he effection bone n B Valacyclovir C. Amantadine Amphotericin B D. E. Ceftriaxone Excessive doses of thyroid hormones are LEAST likely to produce hyper thyroidim: 7. INSOMAIN anxiety fwer Hypoglycemia weight loss B. Insomnia tachy cardia C. Weight loss ang ina D. Tachycardia E. Intolerance to heat Which of the following best describes the mechanism of propylthiouracil? 8. treats hyperthyroidism inhibts deionizations Ty to Tz skin reactions Blocks thyroid hormone receptors A. B. Stimulates insulin secretion Is an inhibitor of estrogen synthesis Reduces the synthesis of thyroid hormones Increases the deiodination of thyroxine 9. Preferred drug for the treatment of hypothyroidism: Levothyroxine -A. Methimazole Glyburide B. C. Propylthiouracil D. Metformin (E) Levothyroxine All of the following statements about pharmacokinetic properties of drugs are true EXCEPT: A drug administered orally is susceptible to first pass metabolism Binding of a drug to plasma proteins reduces its rate of distribution B. The non-ionized portion of a drug is more likely to cross the blood brain C. barrier Gaseous drugs, such as nitrous oxide, can be excreted unchanged via the D. Increasing urinary pH causes as increase in excretion of weak bases E.

	11.		4-year-old man has been treated for the past 12 litus. Which of the following drugs is most ap	propriate for or.
В		A: C:	Glyburide NPH insulin Metformin	once adag
		D. E.	Regular (cystalline zinc) insulin Lispro insulin	
	12.	Wh	ich of the following best describes the mechani	ism of action of insulin?
		A.	Binds to an intracellular receptor to increase	protein synthesis
E		C.	Increases adenylyl cyclase Increases guanylyl cyclase	- Cell receptors on the cell surface
		D. É.	Ennances chioride influx	-typophe kinest
	13.	Chroste	onic dosing of which drug for treatment of infloporosis?	ammation can cause
Λ		A.	Prednisone	- reduces G2t absorbtion
H		В.	Ibuprofen	- reduces Car absorbbon - treats hyperalcemia - leads to sisteoporosiss aseptic necrosis of the hip
		D.	Aspirin Calcitriol	necrosis of the hip
		E.	Metformin	-glucocorticoid -anti-inflammatory
· \$	14.	Whi	ch of the following best describes the mechani	ism of parathyroid hormone?
d		A.	Binds to intracellular receptors to increase pr	otein synthesis
(_	- 6.	Causes opening of sodium channels Increases levels of cAMP	a hun ist artistes
_		D.	Causes chloride influx	- Acamp which activates protein kinases - PAI - osteoblasts - RANK-ligan
		E.	Binds to a tyrosine kinase-linked receptor	Day - when weeken RANK- light
	15.	Use	of estrogens is LEAST likely to produce	- have transver
		Α.	Increased risk of venous thromboembolism	
	•	<u>-</u> у.	Increased risk of endometrial cancer Gallbladder disease	. I de l'étameles
	\	D.	Headaches	- growth of development in Jems
•			Osteoporosis	-growth of development in females - used to cure esteoporesss

• .	16.	Wh brea	ich of the following drugs is most useful ast cancer in postmenopausal women?	
(A. B. D. E.	Mestranol Flutamide Tamoxifen Ethinyl estradiol Mifepristone	- estroyen blacker - treats estroyer-dependant breast cancer & used for prevention in 1 hist women
	17.		ich of the following agents has both opioi perties?	d receptor agonist and antagonist - Agonist at lappa; partial agonistor antigonist
E	X	A C DE	Propoxyphene Naltrexone Fentanyl Meperidine Pentazocine	- Agonist at tappa; partial agonistor antegonist at mu receptirs lopicial - Similar to morphise - lowest analy & sic efficacy - tachycardia by hypertension et dases
	18.	Whi	ch of the following drugs has the greatest	analgesic efficacy?
В	X	A:B)C:D:SS	Pentazocine Meperidine Naloxone Propoxyphene Codeine —	-Mu receptor -moderate to severepsin - PEMEROL - N abuse potential
	19.	Whi	ch of the following statements best descri	bes the steroid receptor?
D	X	A. B. C.O.	It is a calcium dependent enzyme modificate is a noncovalent enzyme modifier. It is a covalent enzyme modifier. It binds to DNA and modifies mRNA synthesis is regulated by inositol 1,4,5, trisphosp	nthesis
	20.	The o	chief disadvantage of nitrous oxide as a ge	eneral anesthetic is
A			Low potency (high MAC) Prolonged recovery time due to retention Poor analgesia Slow induction Excessive relaxation of skeletal muscles	opposite of everything but A in fat

A. Increasing acetylcholine levels in the central nervous system B. Increasing dopamine 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 24. Alcohol is metabolized at a rate that is A. Linearly related to blood alcohol concentration C. Logarithmically related to blood alcohol concentration Independent of the blood alcohol concentration E. Expotentially related to blood alcohol concentration E. Expotentially related to blood alcohol concentration 25. A 23-year-old pregnant woman is found to be anemic. Laboratory analysis shows that she has typical microcytic hypochromic anemia of pregnancy. Which of the following agents would be most useful to relieve the anemia? A. Cobalamin B. Folic acid		21.	in drug regimens for angina pectoris in the normo	<u> </u>
curve, is a measure of A. Potency B. Efficacy C. Solubility D. Half-life E. Degree of protein binding 23. Parkinsonism is best treated by A. Increasing acetylcholine levels in the central nervous system B. Increasing dopamine levels in the plasma C. Increasing dopamine levels in the plasma D. Increasing dopamine decarboxylase activity in the plasma E. Both decreasing dopamine and increasing acetylcholine levels in the central nervous system 24. Alcohol is metabolized at a rate that is A. Linearly related to blood alcohol concentration C. Independent of the blood alcohol concentration D. Inversely related to blood alcohol concentration E. Expotentially related to blood alcohol concentration E. Expotentially related to blood alcohol concentration 25. A 23-year-old pregnant woman is found to be anemic. Laboratory analysis shows that she has typical microcytic hypochromic anemia of pregnancy. Which of the following agents would be most useful to relieve the anemia? A. Cobalamin B. Folic acid	Ą	*	Propranolol Hydrochlorothiazide C. Guanethidine D. Digoxin Epinephrine	SE.
B Efficacy C. Solubility D. Half-life E. Degree of protein binding 23. Parkinsonism is best treated by A. Increasing acetylcholine levels in the central nervous system B. Increasing dopamine levels in the plasma Increasing dopamine levels in the plasma D. Increasing dopamine decarboxylase activity in the plasma E. Both decreasing dopamine and increasing acetylcholine levels in the central nervous system 24. Alcohol is metabolized at a rate that is A. Linearly related to blood alcohol concentration Logarithmically related to blood alcohol concentration Independent of the blood alcohol concentration E. Expotentially related to blood alcohol concentration E. Expotentially related to blood alcohol concentration 25. A 23-year-old pregnant woman is found to be anemic. Laboratory analysis shows that she has typical microcytic hypochromic anemia of pregnancy. Which of the following agents would be most useful to relieve the anemia? A. Cobalamin B. Folic acid		22.	<u>.</u>	neight of its dose-response
A. Increasing acetylcholine levels in the central nervous system B. Increasing dopamine 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 24. Alcohol is metabolized at a rate that is A. Linearly related to blood alcohol concentration C. Logarithmically related to blood alcohol concentration Independent of the blood alcohol concentration E. Expotentially related to blood alcohol concentration E. Expotentially related to blood alcohol concentration 25. A 23-year-old pregnant woman is found to be anemic. Laboratory analysis shows that she has typical microcytic hypochromic anemia of pregnancy. Which of the following agents would be most useful to relieve the anemia? A. Cobalamin B. Folic acid	В		B Efficacy C. Solubility D. Half-life	?
B. Increasing acetylcholine levels in the plasma		23.	Parkinsonism is best treated by	you want to enhance dopamine or inhibit acetylcholim
A. Linearly related to blood alcohol concentration Logarithmically related to blood alcohol concentration Independent of the blood alcohol concentration D. Inversely related to blood alcohol concentration E. Expotentially related to blood alcohol concentration 25. A 23-year-old pregnant woman is found to be anemic. Laboratory analysis shows that she has typical microcytic hypochromic anemia of pregnancy. Which of the following agents would be most useful to relieve the anemia? A. Cobalamin B. Folic acid	Ϋ́		 B. Increasing acetylcholine levels in the plasm. D. Increasing dopamine levels in the central ne D. Increasing dopamine decarboxylase activity E. Both decreasing dopamine and increasing activity 	ervous system in the plasma cetylcholine levels
A. Linearly related to blood alcohol concentration Logarithmically related to blood alcohol concentration Independent of the blood alcohol concentration D. Inversely related to blood alcohol concentration E. Expotentially related to blood alcohol concentration 25. A 23-year-old pregnant woman is found to be anemic. Laboratory analysis shows that she has typical microcytic hypochromic anemia of pregnancy. Which of the following agents would be most useful to relieve the anemia? A. Cobalamin B. Folic acid	e	24.	Alcohol is metabolized at a rate that is	-Zero order kinatics - metabolized at a constant rate
shows that she has typical microcytic hypochromic anemia of pregnancy. Which of the following agents would be most useful to relieve the anemia? A. Cobalamin B. Folic acid	()	X	Logarithmically related to blood alcohol condition Independent of the blood alcohol concentrate D. Inversely related to blood alcohol concentrate	tion ncentration tion ation
B. Folic acid		25.	shows that she has typical microcytic hypochromic	ic anemia of pregnancy.
C. Erythropoietin Ferrous sulfate E. Intrinsic factor	D	~~	B. Folic acid C. Erythropoietin Ferrous sulfate	5E

. ,	26.	All	of the following statements about antibi	otics are true EXCEPT:	
,d		A. B. C. D. E.	Combinations of antibiotics are alway antibiotic used alone	ons e antibiotic resistance s more effective than one preferable to bacteriostatic	se Se
	27.	com	elderly woman in a nursing home is being munity acquired pneumonia. She develop of the following drugs is she most library.	ops a painful and bloody d	or iarrhea.
D		A. B. C. D. E.		- Binds COS - bacteriortatic - appears in feces - restricted to pneum - severe diarrhea	onia
	28.	The drug	diarrhea (in question 27), caused by Clo . Which of the following drugs would l	e most useful?	
3	X	A. (b). (c) D. E.	Intravenous gentamicin Oral vancomycin Tetracycline A combination of an aminoglycoside a A quinolone		al cidal spectrum nfections (diarrhea)
	29.	Whi	ch of the following antibiotic combination	ons is most likely to be anta	agonistic?
7	< -	A. OB:	Ampicillin + streptomycin Sulfamethoxazole + trimethoprim Ampicillin + tetracycline Amoxicillin + clavulanic acid Isoniazid + rifampin	- fetra	is ant-gonistic to amplication

30. A cardiac patient taking warfarin contracts tuberculosis. Her physician increases the warfarin dose in response to the TB treatment regimen, which alters the metabolism of warfarin. Which of the following drugs most likely necessitates - way neccessite during in war ferrindosage

Ma G the change in warfarin dose? Rifampin Streptomycin C. Isoniazid **Pyridoxine** Ethambutol All of the following statements about sulfonamides are true EXCEPT: - Stevens - Johnson Syndrone Act by inhibiting dihydrofolate reductase -inhibit dehidropteroate Synthetake Are bacteriostatic antibiotics C. Sulfonamides and trimethoprim form a synergistic combination D. Can be used to treat urinary tract infections Can cause kidney damage All of the following statements about ciprofloxacin are true EXCEPT: Is a semisynthetic derivative of nalidixic acid Acts by inhibiting DNA synthesis SÉ Is orally available Is excreted unchanged in the feces Is useful in treating diarrhea You have a 20-year-old female patient, who suffers from lupus erythematosus, and you are about to perform an extraction of two teeth. Your treatment will need to be given special consideration because the patient is most likely receiving which of the following therapies for her lupus condition? A. Alpha interferon B. BCG (Bacille Calmette-Guerin) - anti-inflammation - can cause osteoporoses Levamisole Prednisone Rho(D) immune globulin

34.		eral of the drugs commonly used to prevent t likely work by which of the following me				
-	-B. -€-	Promote the activity of the cyclophilins Promote antibody switching by activated Inhibit antigen processing by activated B Promote the induction of anti-lymphocyt Inhibit IL-2 expression, and/or inhibit IL activated T cells	cells ——e antibodies	5 €		
35.	A hypertensive patient was put on diuretic therapy and was asked to schedule a follow-up visit in one month, at which time laboratory studies revealed hypokalemia, hyperglycemia, hyperuricemia and hypocalciuria. Which of the following diuretics was she probably taking?					
•	C.	Theophylline Furosemide Spironolactone Hydrochlorothiazide Acetazolamide	- nati-hypertensive - Nacl co-transport - hyperkalemin dese - more effective well	er chps-add triamterens dery & blacks		
36.	selec	ch of the following has the greatest degree ctivity, is an effective bronchodilator, may ittle cardiac stimulation compared to epine	cause tremor with oral use, a			
	B. C. D. E.	Albuterol Aminophylline Beclomethasone Norepinephrine Zafirlukast	SE			
37.		most effective antidiarrheal action would l wing drugs?				
	A. B. C. D. E.	Bismuth subcarbonate Kaopectate Loperamide Lactulose Cascara sagrada	- user opioid Was	receptars		

j	•	38.		of the following antiseptics/disinfectants are correctly paired win EXCEPT:	th their	
	0		A. B. C. D.	Surface active agents –include common soaps; effective again gram-positive organisms Oxidizing agents – might alter subgingival environment Sodium hypochlorite – release of chlorine; useful for debrider root canals Iodophors – release iodine more rapidly Iodine compounds – antibacterial, antifungal, antiprotozoal ar	ment of	onged period of time
		39.	All o	of the following are characteristic of alcohols EXCEPT:		
	В		· -	Are rapidly-acting Are effective antivirals Are highly-volatile Denature protein Are bactericidal	sed ect ingi	
		40.	Sign	s of fluoride poisoning would LEAST likely include		
	В		A.B.O.D.	Nausea Cardiovascular stimulation Diarrhea Hyperreflexia Vomiting	ession	
ſ		41.	All	of the following statements about caries activity are true EXCE	CPT:	
	7.		A. B. C.	Watery diets manifest negligible caries There is a direct relationship between intake of refined carbol- caries activity In patients chronically fed by intubation, there is evidence of negligible caries Cavitation does not exist if a program of good nutrition is strice	only	SE F
			E.	A monosaccharide is less cariogenic than a disaccharide	·	
		42.	Oxy	codone is listed in which Federal schedule of controlled substan	nces?	
	B	~	D. C. D. E.	Schedule I Schedule III Schedule IV Schedule V		

		43.	Wh cha	nich of the following statements unges in the elderly?	is true in regard to age-related physiological
					-Phose I metabolism V
			A.	Greater plasma protein bindi An age-related decrease in to	ng of drugs otal body fat
			6	prolongation of the half-life	ney function can cause a marked
			D.		tribution for water soluble drugs
			E.	Increased absorption due to	ncreased motility of the gastrointestinal tract
		44.	Eso gast	omeprazole is an example from trointestinal tract?	which class of drugs acting on the
	5/		A.	Cytoprotective agent	- -
	X		B	Proton pump inhibitor	St
	•		X	Antacid —	
			D. E.	Antihistamine Antibiotic	
		45.	Whi seiz	ich of the following antiepilept tures when ethosuximide is not	ic drugs may be used in the treatment of absence satisfactory?
1			A.	Phenobarbital	
· 			B.	Gabapentin	-effective against both partial 4 fault-clonic security - liver failure-cide effect
			C .	Valproic acid —	partial 4 fonic-clonic serses.
			D.	Carbamazepine	- liver failure-side effect
		~ .	E.	Fosphenytoin	
		46.	All	of the following statements app	ly to chlorpromazine EXCEPT:
Λ			Q.	Stimulates histamine receptor	(·)F.
H			B.	7 3	<u> </u>
'			C.		zine class of antipsychotic agents
			D.	Blocks muscarinic receptors	
			E.	Increases the rate of secretion	of prolactin
		47.		ch of the following drugs is an muscarinic and sedative side ef	antihistamine (H ₁ -blocker) with the greatest fects?
N			A.	Cimetidine	
\mathbb{D}			B C.	Diphenhydramine	and laterian of withou
				Fexofenadine	-mag cause blurring of vision - constipation & urinary hesitanas
			D.	Ranitidine	- constitution & unitary restrained
			E.	Propoxyphene	

•	48.	Whi	ich of the following statements best chara	cterizes cimeti	dine?	
A		B. C. D. E.	Reduces symptoms of gastro-esophagea Reduces symptoms of seasonal allergies Induces cytochrome P450 Stimulates testosterone production Is a potent antiemetic		_heartburn - alters P4SI - causes gyne	(blocks Hz) Denzyme system comastia in maleJ
	49.	All	of the following statements regarding loca	al anesthetics a	re true EXCEP	Γ:
ξ X	, (50.	A. B. C. E Whi	Mepivacaine is metabolized by liver mid Benzocaine is used only for topical appl Effects of local anesthetics are more pro- than in slowly firing neurons Among all sensations, pain is lost first a anesthetic Procaine produces vasconstriction ch of the following drugs potentiates the	lication Tonounced in rap	oidly firing neuron of a local exception of a local of norepinephrin	ces veroconstriction
B		C. D. E.	Clonidine Amphetamine Metoprolol Propranolol Bethanechol			
	51.		ch of the following cancer chemotheraper e toxicity?	utic drugs is LI	EAST likely to in	nduce
Ť		A. B. O D. E.	Vinblastine Palcitaxol	-puving syn -no acute t -large dose	thoris oxicity slead to bone u	navrow depression

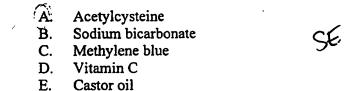
For Questic	ns 52	and	53
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A young woman is brought to the emergency room having taken 50 maximum strength acetaminophen tablets 4 hours earlier. She has no immediate symptoms.

52. The most serious concern would be development of

	\	A.	Hemolytic anemia	
\cap	Х	75	Renal failure ~	SE
_	•	Ç.	Metabolic acidosis	
		D)	Delayed hepatic necrosis	
		Ē.	Methemoglobinemia	

53. This drug overdose is best managed by continued administration of



54. A teratogenic vitamin A analog used orally in the treatment of severe acne:

A. Menadione

B. Isoniazid

C. Isotretinoin

D. Calcitriol

E. Infliximab

SE

- 55. All of the following statements regarding the administration of drugs to pregnant or lactating women are true **EXCEPT**:
 - A. Most drugs are detectable in breast milk; however, the concentrations achieved are usually low

B. A single intrauterine exposure to a drug can affect the fetal structures undergoing rapid development at the time of exposure

- C. Fetal therapeutics is an emerging area in perinatal pharmacology which involves drug administration to the pregnant woman with the fetus as the target of the drug
- D. Maternal drugs will not cross the placenta to reach the fetus
- E. The molecular weight of a drug influences the rate of transfer and the amount of drug transferred across the placenta

i	56.	Which of the following co prostaglandins?	mpounds most effectively inhibits the synthesis of
A	X	prostaglandins? Acetylsalicylic acid B. Acetylcysteine C. Colchicine Acetaminophen E. Morphine	Æ
	57.	latrogenic exposure during	pregnancy to which of the following drugs has nors in the female offspring of patients?
B	X	Methotrexate B. Diethylstilbestrol C. Naproxen D. Verapamil E. Diazepam	SE-formly used
	58.	Which of the following dra and is useful in the treatme	ngs is most likely to stimulate salivary secretions, ent of xerostomia?
8		A. Glycopyrrolate Pilocarpine C. Clonidine : D. Hydrochlorothiazide E. Scopolamine	- P muscerinic -may cauce abdominal pain and diarrhea -auses missis h blurring of vision
1	59.	Which of the following dru	gs inhibits ergosterol synthesis in fungal cells?
0		A. Nystatin B. Tolnaftate Griseofulvin Itraconazole E. Acyclovir	In ideade & triazole derivatives are ergosterol Lynthusia inhibitors
	60.	Which of the following dru infections, but produces the	gs is effective in the treatment of cytomegaloviral highest incidence of anemia and renal toxicity?
Ē	**************************************	A. Amantadine B. Oseltamir C. Interferon D. Nelfinavir E. Ganciclovir	- acts like acyclovir - also - bone marrow suppression, thrombocytopenia renal impairment, seizures

		61.	Zidovudine is most likely to produce which of the following adverse reactions?
γ	X		A. Hypertension B. An overgrowth of clostridium in the gastrointestinal tract Anemia D. Nephrolithiasis (kidney stones) Bronchospasm - HN drug - inhibits reverse tranccriptage - rausea, headache Lique, anemia neutropenia, myalgias
		62.	Which of the following best describes the mechanism of action of levothyroxine?
7			A. Increases the activity of adenylyl cyclase B. Causes opening of sodium channels Binds to nuclear receptors to increase protein synthesis D. Increases activity of protein kinase C E. Binds to the GABA ionophore
		63.	Which of the following drugs binds to hydroxyapatite to reduce bone resorption of calcium? It is used in the treatment of osteoporosis.
D		•	A. Rosiglitazone B. Prednisone C. Methimazole Alendronate E. Norgestrel
		64.	The most likely adverse reaction of glyburide is
A			The most likely adverse reaction of glyburide is - Sulfonyl ureas. - Tecretion of insulin - Type 2 - GI symptoms, muccle weekness, - GI symptoms, mycolycemia E. Bradycardia - Wental confusion, hypoglycemia
	(65.	Which of the following drugs is useful in the treatment of type-2 diabetes mellitus, and acts by stimulating insulin secretion?
B			A. Acarbose B. Glipizide C. Rosiglitazone D. Metformin E. Propylthiouracil - chlorpropamide - glipizide - glipizide - glime piride

i	•	66.	Which of the rickets and o	e following drugs is osteomalacia?	s most useful in the prevention a	nd treatment of
3	Χ.		B Calcitr C. Glybur D. Fluoric E Predni	ride le	-Stimulates absorp and enosphate -7 Ca ²⁺ deposition	tion of Ce st
		67.			s a competitive androgen receptoric prostate cancer?	or antagonist
U	X		B. Tamox C. Flutam D. Megest	ide	-anticudragen	
		68.	A partial estrand ovulation		nist, used to stimulate follicular	_
					- multiple pregnance	ivs
			A. Ethinyl B. Finaste C. Nandro D. Clomip E. Megest	olone ohene		
		69.	Acute intoxic pupillary dila	cation with which o	of the following drugs is characted increased talkativeness?	erized by
	C	-	B. Heroin Amphe	tamine a hydroxybutyrate	e S	Ķ.
		70.	The clinical pantiplatelet the		nonly associated with all anticoa	agulant and
	E		B. HepaticC. Renal dD. Hyperte		SE	

71.	Cinchonism is a syndrome associated with which of the following drugs?
A	Quinidine B. Digitoxin C. Sotalol D. Procainamide E. Propranolol
f ₁₂)	Which of the following is an antihypertensive drug that most likely produces syncope with the first dose? A. Verapamil B. Captopril C. Hydrochlorothiazide D. Prazosin = E. Methyldopa
73.	A drug with elimination half-life equal to 6 hours is infused at a constant rate of 10 ug/min. The steady-state level will be attained in approximately A. 1 min. B. 10 mins. C. 8 hours D. 26 hours E. 40 hours
74.	Which of the following drugs is a depolarizing neuromuscular blocker with a short duration of action, and is broken down by pseudocholinesterase? d-Tubocurare Pancuronium Hexafluorenium Benzoquinonium Succinylcholine
75	Which barbiturate has the shortest duration of action? A. Pentobarbital B. Secobarbital C. Phenobarbital Mephobarbital Mephobarbital E. Thiopental

		76	. W	Thich of the following classes of a gram-negative bone infection?	ntibiotics can be	used <u>orally</u> to treat	
В)		A B C. D. E.	A tetracycline, such as chlorte	profloxacin nethoxazole tracycline	-also UT: -Bone in	fections C's
		77.	W inl	hich of the following antibiotics in hibitor to prevent its metabolism in the contract of the	n the kid-as o		
	×		A. B. D.	Ethambutol	- We extens	ive metabolism in	renal
		78.	Tet ind	tracyclines would be most likely t ications?	used in dentistry f	or which of the follow	wing
B			A. B. C. D. E.	Orodontal infections Peridontal infections Bone infections Prophylaxis Abscesses	SE-you sh looot pa	nould know this furis Classes	rom the
		79.	All	of the following indications for a	ntibiotic use are t	rue EXCEPT:	UP someration
A	X,	í	B. D. E.	First generation cephalosporins Chloramphenicol is indicated for Clindamycin is a useful drug in Tetracyclines can be used to treat Quinolones are useful in treating	or treatment of Sa treating urinary to at Rickettsial infe	lmonella infections	-4th generation for meningritis
	8	30.	Whi of vi	ch of the following classes of antitiamin K to avoid blood clotting p	biotics may requi roblems caused b	ire a supplement y the antibiotic?	
D			A. B. C. © E.	Fluoroquinolones Penicillins Aminoglycosides Cephalosporins Tetracyclines	_	E	

•	01.	follo	at immunosuppressive drug therapy to prevent organ rejection. Which of the wing drugs is LEAST likely used for this patient to control the rejection of the transplant?	e
X		AIR D. D.	Cyclosporin Isoprinosine FK506 (Tacrolimus) Rapamycin Azathioprine —	
	82.		are called on to treat a 24-year-old female patient who has been diagnosed Lupus erythematosus, and is being treated with cyclophosphamide. This	- Orog in themes - Oroginal or in themes - Charles and in the control of the cont
E		A. B. C. D.	Is immunosuppressive because it inhibits the expression of MHC molecules	Nitrogen Nitrogen mustard grad = alkylating agent
	83.	Basic	c mechanisms of action of local anti-infectives may include:	
0		A. B. C. E.	Denaturation of cellular protein Osmotic disruption of the cell Interference with metabolic processes All of the above None of the above	
	84.	All c	of the following antiseptics/disinfectants are correctly characterized EXCEPT	:
E		A. B. C. D.	Alcohols – most widely used local anti-infectives Chlorhexidine – surgical scrub; a biguanide Eugenol – analgesic action Hexachlorophene – surgical scrub, may be absorbed Guaiacol – active ingredient in oil of cloves; analgesic	
			-oithBoil is eugenol & analgeric - Guaracol- acrivative of phenol	
			- Guniacol- acrivative of phenol	

81. One of your patients has recently received a kidney transplant, and is receiving

85.	All of these statements about anticaries approaches in humans are true EXCEPT:				
	A.	There is a direct relationship between fluoride concentration in drinking water and anticaries protection			
	В.	There is a direct relationship between fluoride concentration in drinking water and the occurrence of enamel fluorosis			
,	Ć.	The mechanism of fluoride action deals with the formation of more soluble			
	-	fluorapatite from the less soluble hydroxyapatite, resulting in an increase in the remineralization of the enamel			
	D.	Five parts per million fluoride concentration in drinking water can give more anticaries protection than one part per million			
	E.	There is a direct relationship between fluoride concentration in drinking water and the risk of development of hypocalcemia			
86.	An inverse agonist at the benzodiazepine binding site is most likely to cause which of the following actions? benzodiazepine and produces A. Muscle relaxation Oukilty vxn, Convulsions, Ceizures				
	Α.	Muscle relaxation ankitty vxn, convulsions, Ceizures			
	B.	Agranulocytosis Convulsions			
	D.	Psychotic episodes			
	E.	Sedation			
87.		f the following drugs have a latency period of at least one week before the of their therapeutic action EXCEPT:			
	A.	Lithium carbonate			
	B.	Tranylcypromine			
		Imipramine			
	D. E.	Fluoxetine Diazepam			
88.	All c	f the following statements are true for the actions of prazosin EXCEPT:			

Lowers systemic blood pressure

Produces only a modest reflex tachycardia, compared to hydralazine
Acts as an indirect sympathomimetic
Blocks the pressor response to norepinephrine
Selective for alpha-1 adrenergic receptors

-parasympathutic

All of the following are parameters associated with cancer chemotherapy EXCEPT: Multiple agents are used to achieve maximal cell kill Cancer chemotherapeutic agents only affect cancer cells, not normal cells Treatment is often continued after the disappearance of clinical symptoms D. Repetitive doses are used to achieve tumor cell kill Tumor cell resistance is reduced in combination chemotherapy E. All of the following statements are true about drugs used in pregnancy, nursing and pediatric patients EXCEPT: Reduced renal blood flow in newborns may increase the half-life of drugs, A. compared to adults de Most phase I liver enzymes are lower in neonates than in adults B. Water soluble, ionized drugs readily cross the placenta Ethanol ingested by nursing mothers can sedate the infant D. Ethanol ingestion during pregnancy will cross the placenta E. For Questions 91 thru 95: For each of the numbered statements, select the single most appropriate lettered drug. You may use each letter once, or not at all. 5-Fluorouracil Nitrogen mustards C. Methotrexate Cytarabine D. E. Vinblastine Binds to spindle proteins inhibiting cell growth at metaphase *E* Forms a high affinity complex with dihydrofolate reductase Forms a ternary complex with thymidylate synthetase and its folate cofactor Is a cell cycle nonspecific agent that induces DNA damage Administered as a nucleoside but inhibits cell growth by incorporation in DNA

For Questions 96 and 97:

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

- A. Vitamin A (Retinol)
- B. Vitamin D
- C. Vitamin K
- D. Vitamin C (Ascorbic Acid)
- E. Vitamin B₃ (Niacin)
- 96. Deficiency of this vitamin leads to a condition called scurvy, indicated by soft bleeding gums, loose teeth, joint pain, dry scaly skin and blood vessel damage
 - 97. The vitamin necessary for the production of blood clotting factors II, VII, IX and X

For Questions 98 thru 100:

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

4

- A. Naloxone
- B. Digibind
- C. Atropine
- D. Antivenin
- E. Vitamin K

0

98. Antidote for the treatment of rattlesnake envenomation

~ B

99. Treatment for the acute overdose or accumulation of digoxin in a patient with renal insufficiency ρ

(X_{1}

100. One of a combination of drugs used to treat poisonings with organophosphate and carbamate cholinesterase inhibitors

END OF EXAM