PHARMACOLOGY MULTI CHOICE

1) a) b) c) d)	Which has a half life of 6 hours? Aspirin Digoxin Atenolol Diazepam
2) a) b) c) d)	Regarding Pharmacokinetics and Pharmacodynamics, which is correct? Diffusion is inversely proportionate to surface area and directly proportionate to thickness The LD%) is 50% of the dose that kills most people The LD50 is 50% of the dose at which toxicity occurs Efficacy is the maximum response produced by a drug
3) a) b) c) d)	Regarding therapeutic index (TI), which is correct? LD50 is equal to it A small TI means the drug is safe It compares the ED50 to TD50 It compares TD50/ED50
4)a)b)c)d)	A young healthy man is injected with a normal dose of a drug. His dilated pupils and hypertension are caused by Morphine Adrenaline Atropine Aspirin
5) a) b) c)	Regarding Ketamine, which is correct? It has no emergence phenomena It depresses laryngeal reflexes It is a cardiovascular stimulant
6) a) b) c) d)	Regarding Cimetidine, which is incorrect? It may cause gynaecomastica It may increase antral contractility It's T1/2 is 1.9 hrs It induces liver enzymes
7) a) b) c) d) e)	All of the following induce cytochrome P450 except Carbamazepine Cimetidine Rifampin Griseofulvin Phenytoin
8) a) b) c) d) e)	Regarding pharmacodynamics in the elderly, which of the following is true? Lignocaine has a shorter T1/2 Ethanol clearance is decreased Phase II metabolism is increased Digoxin has a smaller Vd There is decreased absorption of paracetamol
9) a) b) c)	Regarding Pralidoxime It cleaves organophosphate from acetylcholinesterase It inhibits presynaptic acetylcholine release It regenerates acetylcholine

10) Regarding Angiotension Converting Enzyme inhibitors, which is false?

- a) Use can produce angioneurotic oedema
- b) Use can produce cough
- c) They have no effect on Bradykinin
- d) They are known to cause acute renal failure
- e) They are contraindicated in the 2nd and 3rd trimester
- 11) Which antibiotic is not an aminoglycoside?
- a) gentamycin
- b) tobramycin
- c) streptomycin
- d) neomycin
- e) vancomycin
- 12) Regarding SSRIs
- a) They are effective in treating OCD
- b) Paroxetine is more sedating than Tricyclics
- c) Interaction with morphine may precipitate serotonin syndrome
- d) Fluoxetine does not have an active metabolite
- 13) Dextropropoxyphene
- a) Is structurally related to methadone
- b) Overdose causes death from hepatotoxicity
- c) When combined with paracetamol is a strong anti inflammatory
- 14) Which of these side effects can be caused by loop diuretics?
- a) Ototoxicity
- 15) Adenosine
- a) Acts by blocking Ca++ channels
- b) Markedly depresses SA node
- c) Decreases K+ conductance
- d) T1/2 10 mins
- 16) Regarding antiemetics
- a) Metoclopramide increases lower eosophageal sphincter tone
- b) Odansetron is a dopamine agonist
- c) Marijuana has an antiemetic effect
- 17) Regarding the T1/2 of Naloxone
- a) It is greater than 4 hours
- b) It is less than 1 hour
- c) It is between 1-2 hours
- d) It is between 3 –4 hours
- 18) Metoclopramide
- a) Increases antral contractility
- 19) Regarding enzyme induction
- a) It is irreversible
- b) It takes 4 months
- c) It results in an increase in smooth ER
- d) It causes an increase in rough ER
- 20) Regarding Theophylline toxicity
- a) Seizures are not associated with warning signs
- b) It is associated with hyperkalemia
- c) Overdose of slow release tablets will give a peak serum level in 6 hours
- 21) Which raises the PH of urine the most?

- a) Frusemide
- b) Acetazolamide
- c) Chlothiazide
- d) Phenobarbitone
- 22) Penicillin V
- a) Can be given oral or IV
- b) Should have the dose reduced in mild renal failure
- c) Should be given on an empty stomach
- d) Is effective for treating eye infections
- 23) Propofol
- a) Accumulates in the body
- b) Can produce abnormal muscle movements
- c) Has minimal effects on the CVS
- 24) Histamine does all of the following except
- a) Decreases systolic blood pressure
- b) Decreases diastolic blood pressure
- c) Decreases myocardial contractility
- d) Increases contractility of GI muscle
- 25) Serotonin
- a) Is an appetite suppressant
- b) Causes vascular smooth muscle dilation
- c) Causes GI smooth muscle contraction
- d) Causes nausea
- e) All of the above
- 26) Regarding paracetamol toxicity
- a) Toxicity is related to glutathione consumption
- b) It is enhanced with cimetidine
- c) The production of the toxic metabolite is secondary to sulphation
- 27) Which is incorrect?
- a) Disinfectants clean non-living fields
- b) Antiseptics clean living fields
- c) Antiseptics in low dose can promote bacterial growth
- d) Alcohol readily kills bacteria and spores
- 28) Which does not interact with warfarin?
- a) Phenobarbitone
- b) Loop diuretics
- c) Benzodiazepines
- d) Cephalosporins
- 29) Hydralazine
- a) Classically has a biphasic response in BP control
- b) Should not be used in eclampsia
- c) Causes significant postural hypotension
- d) Is predominantly a vasodilator
- 30) Regarding Oxygen Toxicity
- a) Occurs when breathing 50% O2 for more than 24 hours
- b) Only has an effect on the eye in children
- c) Lung effects are more related to FIO2 than PIO2
- d) Can produce CNS signs like stroke and extrapyramidal effects
- e) CNS occur first if PO2 increases rapidly above 3 atmospheres
- 31) Digoxin exerts its effects by

a) Increasing intracellular calcium 32) Norfloxacin Cannot be used to treat travellers' diarrhoea a) Levels can be increased by probenicid b) T1/2 is 12 hours c) 33) Chloramphenicol Is used to treat ocular chlamydial infections a) b) Is used as a systemic treatment for genital chlamydia Reaches similar levels in CSF as in serum c) d) Causes aplastic anaemia in 1 in 2000 34) Sulphonamides is a structural analogue of **PABA** a) b) Dihydrofolate Tetrahydrofolate c) d) Folic Acid 35) Isoprenalin does not do which of the following Increases renin a) Increases glycogenolysis b) Increases blood glucose c) d) Increases diastolic blood pressure 36) Side effects of thiazide diuretics include Hypouricaemia a) Hypoglycaemia b) Hyperkalemia c) d) Hyponatremia 37) Regarding aspirin, which of the following is true? a) It has a Pka of 6.5 b) It is a reversible inhibitor of cyclooxygenase It decreases temperature by causing vasodilation c) At low doses, metabolism follows zero order kinetics d) 38) Aspirin Is an antipyretic, analgesic, antiinflammatory a) 39) Regarding diffusion across cell membranes Is increased for acids in an acidic medium a) b) Ionized drugs cross easily 40) A man who has been treated for hypothyroidism 3/12 ago, is now febrile and neutropaenic; the drug that caused this was probably: Iodine a) Propylthiouracil b) None of the above c) 41) Regarding Phenytoin Metabolism follows first order kinetics at low doses a) It is poorly absorbed orally b) It works at GABA channels c) 42) Regarding glucocorticoids, which is incorrect? They do not have any effects on a developing foetus a)

43)

Which is true?

a)	Benzodiazepines have a cyclic structure
44)	5ml of 2% wv is equal to:
a)	10mg
b)	100mg
c)	200mg
d)	20mg
e)	40mg
45)	Which shortens the refractory period in normal cells?
a)	Amiodarone
b)	Sotalol
c)	Quinidine
d)	Lignocaine
e)	Procainamide
46)	Which does not act on fibrinolysis?
a)	Streptokinase
b)	Urokinase
c)	Aminocaproic acid
d)	Heparin
e)	TPA
47)	What drugs do not affect warfarin metabolism?
a)	Phenobarbitones
b)	Rifampin
c)	Cimetidine
d)	Benzodiazepenes
48)	Regarding neuromuscular blockers, which is true?
a)	Gentamicin increases their efficacy
b)	Gallamine is eliminated by the liver
c)	Vecuronium is a NSAID
d)	Doxacurium causes hypotension in a volume depleted patient
e)	Suxamethonium decreases intra-ocular pressure
49)	Local anaesthetics
a)	Act on rapidly firing neurons
b)	Act on largest diameter nerves first
c)	Act on hyperpolarised neurons
50)	Iron may cause the following side effects, except:
a)	Reticulocytosis
b)	Abdominal cramps
c)	Black stools
d)	Nausea Thrombourtononia
e)	Thrombocytopaenia
51)	Metoprolol
a)	Has no effect on renin release
b)	Is non-selective
c)	Has more of a bronchoconstrictor effect than propranolol
d)	T1/2 is 3-4 hours
52)	Erythromycin
a)	Binds to 50s ribosomal RNAand inhibits protein synthesis

Which antibiotic/s affects the cell wall (or has/have a B-lactam ring)?

53)

- a)
- Doxycycline Tetracyclines b)
- Cephalosporins Minocycline c)
- d)
- 54)
- Regarding Quinolones, Norfloxacin Has its plasma concentration increased by probenecid a)
- b) Can be used to treat traveller's diarrhoea
- c) Inhibits bacterial DNA synthesis
- d) All of the above
- 55) Which of the following does not require a dose reduction in CRF?
- Doxycycline a)
- Tetracycline Gentamicin b)
- c)

ANSWERS

1)	C	52)	A
2)	E	53)	C
	D	54)	D
3)			
4)	B	55)	A
5)	C		
6)	D		
7)	В		
8)	D		
9)	A		
10)	C		
11)			
12)			
13)			
14)			
15)			
	A & C		
17)			
18)			
19)			
20)			
21)			
22)			
23)	В		
24)	C		
25)	All of the above		
26)	A		
27)	D		
28)			
29)			
	?E Can't remember why I think E, but I do.		
31)			
32)			
33)			
34)			
35)			
36)			
37)			
38)			
39)	A	0.1	•
40)	B or C, depending o how you read the question, ie none o	t then	m were used to treat
	HYPOthyroidism. Propylthiouracil does cause fevers and	neutr	opaenia.
41)			
42)			
43)	A		
44)			
45)			
46)			
47)			
	A NB I think it depends on what the other options are. Se	e Ada	um Coulson's questions, no 109. We
	thought Gentamicin definitely increased the duration of a		
49)	- · · · · · · · · · · · · · · · · · · ·	,	
50)			
51)			
-21	ν		