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2023

B.Pharm. 4th Semester End-Term Examination PHARMACOLOGY - I THEORY

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any four from the rest.

I. Answer ALL the questions:

 $(20 \times 1 = 20)$

- 1. (i) Majority of drugs cross biological membrane by
 - (a) Filtration
 - (b) Active transport
 - (c) Passive diffusion
 - (d) Endocytosis
 - (ii) Weakly acidic drugs
 - (a) Excreted faster in alkaline urine
 - (b) Are highly ionized in gastric juice
 - (c) Don't cross blood brain barrier
 - (d) None
 - (iii) Therapeutic index of a drug is the measure of
 - (a) Dose
 - (b) Affinity
 - (c) Safety
 - (d) Potency

(1V)) Effector systems of Gr Cit									
	(a) cAMP									
	(p).	Phospholipase C inositor Phosphate								
	(c)	Ion Channels								
	(d)	All								
(v)	Foll	owing receptor is present in muscle end plate								
	(a)	N _N	(b)	N _M						
	(c)	M_1	(d)	M_2						
(vi)	Acti	ction of Pilocarpine includes following except:								
	(a)	Salivation	(b)	Sweating						
	(c)	Miosis	(d)	Tachycardia.						
(vii)	Bloo	od Vessel Contains follov	wing recepto	rs						
	(a)	M_1	(b)	N _N						
	(c)	α_1 and β_2	(d)	None.						
(viii) Atr	acurium can be used as								
	(a)	Local anesthetic								
	(b)	Adjuvant to General A	naesthesia							
	(c)	Antihypertensive.								
	(d)	Mydriatic								
(ix)	Adı	renaline is administered	with Local	Anesthetic to						
	(a)	Minimize ADR								
	(b)	Increase the duration	of action							
	(c)	Reverse the effect.								
		None of above								
(x)	Dis	ssociative anesthesia is p	produced by							
	(a)	Droperidol								
	(b)									
	(c)	Ketamine								
	(d)			CARA						
(xi)) Fo	llowing ion channel is at	tached with	GABA _A receptor						
	(a)									
	(b)									
	(c)									
	(d)	Chloride								

(xii) Fluoxetine is

- (a) Tricyclic antidepressant
- (b) SSRI
- (c) MAO inhibitor
- (d) Atypical Antidepressant.

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(xiii) Morphine can cause

- (a) Analgesia
- (b) Miosis
- (c) Respiratory depression
- (d) All

(xiv) An orphan drug

- (a) Is very Cheap
- (b) Doesn't have therapeutic value
- (c) Is required for the treatment of rare disease
- (d) Has no side effect.
- (xv) Minimal alveolar concentration of an inhalation anesthetic is a measure of its
 - (a) Affinity

(b) Potency

(c) Diffusibility

(d) Side effects.

(xvi) Atenolol is

- (a) Selective β 1 Blocker
- (b) Selective β 2 blocker
- (c) $\beta 1 + \beta 2$ blocker
- (d) None of above

(xvii)Following drug is used to treat Mania

- (a) Lithium
- (b) Lorazpam
- (c) Phenobarbitone
- (d) Selegiline

(xviii)Higher the therapeutic index

- (a) Less absorption of drug
- (b) Drug is toxic
- (c) Drug have no action
- (d) Safer the drug

	NACOTAL TOWN		the body become ires higher doses to					
	(a)	Addiction		(b)	Dependence		
	(c)	Tolerance		(d)	Resistance		
Vitar	(xx) I	Follo	owing is an inhibite	ory neurotran	ısmi	tter		
	(a)	GABA		(b)	Glycine		
	. (c)	Both (a) and (b)		(d)	None of Above	е	
II.	Answ	er a	ny seven					
2.	What with A		e neuroleptics? Cla	assify it and	wri	te the MOA	of typical	neuroleptics (5)
3.	Expla	in i	n brief about the ex	xcretion of dr	ugs	through urine.		(5)
4.	Class	ify l	ocal anesthetics ar	d mention its	s MC	OA and ADR.		(5)
5.	Class	ify 1	receptors. Write a r	note on JAK/S	STAT	F binding recep	ptors.	(1 +4=5)
6.			te the synthesis, s its pharmacologica				oline in n	erve ending. (2.5+2.5=5)
7.	Write	dov	wn the classificatio	n and MOA	of An	tiepileptic dru	gs.	(5)
8.	Expla	ain i	n brief about first	order and ze	ro o	rder kinetics o	f eliminat	ion of drugs. (2.5+2.5 =5)
9.			arkinson's disease. bidopa and mentio				nale of usi	ng Levodopa (5)
10.	Descr	ribe	about the different	t phases of dr	ug d	iscovery and e	valuation.	(5)
III.	Answ	er a	any two					
11.			Adverse Drug Rea ADR with example		sify	it and write i	n brief ab	out different (2+8=10)
12.			edatives and hypr different class with				Examples.	Explain the (1+2+7 =10)
13.	Expla		in details about va	rious mechai	nism	of biotranspo	rtation of	drugs within (10)

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II.

2.

3.

4.

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