Duration: 3 Hrs	EST.	100	Total marks: 75				
N.B.: 1. All questions are compulsory 2. Figures to right indicate full marks		WEST A	ST ST				
I. Multiple Choice Questions (MCQs) (Answer a	II tho	(uestions)	20 marks				
1. The majority of drugs cross biological membra			20 marks				
a. Passive diffusion	b.	Facilitated dif	ffusion				
c. Active transport	d.	Pinocytosis	3 20				
	<u> </u>		1 761				
2. Bioavailability of drug refers to:	S	2 2 V	2				
a. Percentage of administered dose that reache	es syster	nic circulation	in the unchanged				
form	, D,	£9'	VS. TA.				
b. Ratio of oral to parenteral dose	7	ZXO,	# 57				
	c. Ratio of orally administered drug to that excreted in the faeces						
d. Ratio of drug excreted unchanged in urine t	o that ex	xcreted as meta	bolites				
		11 1 14					
3. The antagonism between adrenaline and histar	nine is o	called physiolo	gical antagonism				
because: a. Both are physiologically present in the body			7, 6				
b. They act on physiological receptors	<b>y</b> ,	(OT )	3				
c. Both affect many physiological processes	-	60 77	A				
d. They have opposite physiological effects re	centor	192	3				
	P	16,	4				
4. When one drug affects the absorption of anoth	er drug,	both are said t	o exhibit:				
a. Pharmacodynamic interaction	b.		etic interaction				
c. Synergism	d.	Potentiation					
	A						
<b>5.</b> Physostigmine differs from neostigmine in that							
a. It is synthetic in origin b.		etrates the corn					
c. It has poor oral absorption d.	Predo	minantly acts o	n skeletal muscle				
A	, Y	50	V				
6. Atropine markedly reduces the secretions from	1:	Calinamy	d.				
a. Gastric glands c. Liver	D.	Salivary gland Pancreas	us				
C. Elvei	<u>d.</u>	Fancieas					
7. Disulfiram is useful in:	001	3					
a. Controlling alcohol withdrawal symptoms	b.	Treating alcol	hol toxicity				
c. Reducing craving for alcohol	d. (		hol dependence				
	S. D.	3/					
8. The antiepileptics have following mechanisms	EXCE	PT:					
a. Prolongation of sodium channel inactivation	$\mathbf{n}$						
b. Facilitation of T type calcium current	9						
c. Inhibition of glutamate activity	7						
d. Facilitation of GABA activity							
the state of							
9 are also termed as analeptics.		<b>~</b>					
a. CNS and Respiratory stimulant	b.		piratory depressant				
c. Psychotic	d.	Hallucinogen	S				

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10.	drug act as antagonist	on opioi	d receptors		2 25		
	a. Naltrexone	⊿∀b		eridine	7, 19		
	c. Fentanyl	d d		phine	3		
	<b>1</b>	7	AV	6 47			
11.		ameter that signifies the rate of excretion of drugs is:					
	a. Clearance	b. Volume of distribution					
	c. Bioavailability	SO/G	l. Stea	dy-state plasma con	centration		
10	Compet masses of new days days	- t- \( \)	4 in A				
12.	orrect process of new drug development is:						
	a. Drug discovery → Clinical development → Preclinical development b. Clinical development → Preclinical development → Drug discovery  a. Preclinical development → Drug discovery						
	<ul> <li>c. Preclinical development → Drug discovery → Clinical development</li> <li>d. Drug discovery → Preclinical development → Clinical development</li> </ul>						
	d. Diug discovery / Treenmear	inical development	$\Delta^{\chi}$				
13	The bladder trigone and prostation	muscles	s are relaxe	d by	100 A		
10.	a. Adrenergic α1 agonists	inascie	b.	Adrenergic α1 ar	ntagonists		
	c. Adrenergic $\alpha_2$ agonists	,	d	Adrenergic $\alpha_2$ an			
	a randing se way and selection of the se	.6	7	Transmit give we am	A A		
14.	The stage of anesthesia is	expected	to be skip	ped during induction	n of anesthesia		
	a. Stage I	A	ъ.	Stage II	Z.XO		
	c. Stage III	3	d.	Stage IV	1 2		
S	A. 6 A.	· ·	A	16,			
15.	The drug that is categorized as ha	that is categorized as hallucinogen is:					
	a. Caffeine	4,	b.	Atropine	4		
	c. Lysergic acid diethylamide	591	d.	Acetylcholine 🔇			
		16	4		·Ot		
16.	Atypical antipsychotics acts on:	?		7 A.	.67		
7,	a. Only dopaminergic receptor	0	b.				
	c. Only 5HT receptor	18	d.	Only Noradrenal	ine receptor		
<b>. –</b>	4	2	3	COT C	<b>5</b> V		
17.	Distribution is:		TA				
4	a. Movement of the drug out of the		S'	3x 201			
(D)	b. Chemical alteration of the drug						
6,	<ul><li>c. Reversible movement of drug between different body compartments</li><li>d. Process by which drug enters the body</li></ul>						
	d. Flocess by which drug emers	the body	1	A)			
18	Therapeutic index refers to:	5	501	S			
10.	a. safety margin of the drug	4,	167	4			
2	b. dose which shows therapeutic	effect	\Delta	40'			
	c. ability of the drug to show therapeutic effect						
	d. ratio of median effective dose to median lethal dose						
	and of median effective dose to median femilia dose						
<b>19.</b> /	Adrenaline injected with a local	anaesthe	tic:				
G	a. Reduces local toxicity of the l	V V	A Y				
3	b. Provides a more bloodless fiel		~ 1				
Χ,	. Shortens duration of local anaesthesia						
	d Malrag the investion last saint						

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20. The anesthetic agent that causes diffusion hypoxia especially when given alone

a. Halothane

b. Ketamine

c. Nitrous oxide

Thiopental

## II. Long Answers (Answer 2 out of 3)

20 marks

- **A.** Explain the phase I and phase II reactions in detail.
- **B.** Define Parasympathomimetic. Classify them and add a detailed note on Pharmacology of Acetylcholine.
- **C.** Give a detailed note on drugs used in treatment of Parkinson's disease.

## III. Short Answers (Answer 7 out of 9)

35 marks

- **A.** Give the advantages and disadvantages of oral route.
- **B.** Enlist various factors modifying drug actions. Explain any 2 in detail.
- **C.** Discuss the transmembrane enzyme-linked receptors.
- **D.** Add a note on drugs used in Glaucoma.
- E. Discuss the mechanism of action, side effects and uses of Beta blockers.
- **F.** Give detailed note on dissociative anesthesia.
- **G.** Give mechanism of action and adverse effect of phenytoin.
- H. Classify opioid analgesics. Add note on opioid antagonist.
- I. Discuss in detail atypical antipsychotics.

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