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BINA CHOWDHURY CENTRAL LIBRAR (GIMT & RIPS)

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BP 404 T

Roll No. of candidate	-	T					
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2020

B.Pharm. 4th Semester End-Term Examination

Pharmacy

PHARMACOLOGY - I.

Full Marks - 75

Time - Three hours

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

Ans	wer t	he following (MCQ):		$(20 \times 1 = 20)$
(i)	Who	is the Father of Pharma	cology?	
	(a)	Paul Ehlrich	(b)	Oswald Schmiedeberg
	(c)	Galen	(d)	Rudolf Buccheim
(ii)	Whi	ch of the following is/are	used in t	the treatment of Alzheimer's disease?
	(a)	Tacrine	(b)	Galantamine
	(c)	Rivastigmine	(d)	All of the above
(iii)		inactive drugs which abolites are called as	undergo	metabolism to convert into active
	(a)	Prodrug	(b)	Essential drug
	(c)	Orphan drug	(d)	Individualized drug
(iv)		ch of the following stage geries?	of anaes	thesia is NOT preferred for performing
	(a)	Stage of analgesia	(b)	Stage of surgical anaesthesia
	(c)	Stage of delirium	(d)	Both (a) and (b)

(v)	Dist	ılfiram act by inhibiting					
	(a)	Alcohol dehydrogenase	(b)	Aldehyde dehydrogenase			
	(c)	Acetylcholinesterase	(d)	Monoamine oxidase			
(vi)	Exa	mple of long acting barbiture	ate is				
	(a)	Phenobarbitone	(b)	Pentobarbitone			
F.	(c)	Thiopentone	(d)	All of the above			
(vii)		ch of the following experiments eptic drug?	enta	l models is/are used for study of anti-			
	(a)	Maximal electroshock seizu	res				
	(b)	Pentylenetetrazol (PTZ) clo	nic s	eizures			
	(c)	Both (a) and (b)					
	(d)	None of the above					
(viii)	Whi	ch of the following is NOT ar	n am	ide-linked local anaesthetic?			
	(a)	Lidocaine	(b)	Prilocaine			
3.8	(c)	Tetracaine	(d)	Bupivacaine			
(ix)	Which of the following is NOT related to receptor theories?						
	(a)	Induced fit theory					
	(b)	Molecular perturbation the	ory				
	(c)	Occupation theory					
	(d)	Arrhenius theory					
(x)	-	have affinity but no i	ntrin	sic activity (IA=0).			
	(a)	Agonist	(b)	Antagonist			
	(c)	Partial agonist	(d)	Inverse agonist			
(xi)	Which of the following is relevant to the mechanism of insulin?						
	(a)	Phospholipase C: IP ₃ -DAG Pathway					
	(b)	Intrinsic ion channel recept	or				
8	(c)	Intrinsic enzyme receptors					
	(d)	Nuclear receptors					
(xii)	Ant	idote for acute morphine pois	sonin	g is			
	(a)	Codeine	(b)	Naloxone			
	(c)	Oximes	(d)	None of the Above			

(XIII) LI	P binding cassettee (ABC)	DE CETT	Chairman are court house are				
med	chanism.		CENTRAL LIBRARY				
(a)	Primary Active transport		Light Line apard;				
(b)	Passive diffusion		Wahan 78:017				
(c)	Pinocytosis						
(d)	Secondary Active transport						
(xiv) Fin	d the ODD one in the following	ng re	lated to principle of drug action.				
(a)	Stimulation- Caffeine	(b)	Depression- Diazepam				
(c)	Irritation- Bitters	(d)	Cytotoxicity- Adrenaline				
(xv) Post	t marketing surveillance is re	lated	to which phase of clinical trial?				
(a)	Phase I	(b)	Phase II				
(c)	Phase Ill	(d)	Phase IV				
(xvi) The	e capacity of a drug to cause for	oetal	abnormalities is termed as-				
(a)	Carcinogenicity	(b)	Teratogenicity				
(c)	Mutagenicity	(d)	Idiosyncrasy				
(xvii) Toj	pical instillation of atropine o	n eye	es causes-				
(a)	Mydriasis	(b)	Cycloplegia				
(c)	Abolition of light reflex	(d)	All of the above				
(xviii) In Parkinsonism treatment, amantadine acts by-							
(a)	MAO-B inhibition						
(b)	COMT-inhibtion						
(c)	Doparminergic agonistic ac	tivity	y				
(d)	facilitating the release of Dopamine						
(xix) Fig	tht and flight response is asso	ciate	ed with-				
(a)	Parasympathetic nervous s	yster	m				
(b)	Sympathetic nervous system	m					
(c)	Somatic nervous system						
(d)	Central Nervous system	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
(xx) The	e rate and extent of absorption	on of	a drug from a dosage form is called as				
		7	Distriction				
(a)	Bioequivalence	(p)	Biotransformation Oncet of action				
(c)	Bioavailability	(d)	Onset of action				

 $(7 \times 5 = 35)$ Answer any seven questions: 2. Classify the receptors based on transduction mechanisms. Discuss in details about the G-protein coupled receptors (GPCRs). What are the factors modifying the drug action. Discuss, (5)(b) Classify the antidepressant drugs. Write the pharmacological actions, (c) (2 + 3)adverse effects and uses of Morphine. Explain the different types of adverse effects with suitable examples. (d) Discuss the different absorption mechanism of drug. What are the factors (e) (3+2)affecting drug absorption. (2.5 + 2.5)Write the mechanism of action, adverse effect and uses of-(f) Lignocaine (i) (ii) Diazepam (1+2+2)Briefly discuss about the following. (g) Therapeutic Index (ii) Myasthenia Gravis (iii) Combined effect of drug (5)Write a short note on phase I and phase II metabolism. (h) (2+1.5+1.5)Justify the reasons for the following. (i) Carbidopa is given along with Levodopa for the treatment of Parkinsonism. Why? (ii) Atypical antipsychotics are preferred over typical antipsychotics in the treatment of psychosis. Why? (iii) Aspirin is trapped inside the gastric mucosal cells. How?

Answer any two questions: 3.

 $(2 \times 10 = 20)$

- What is a drug as per WHO? Discuss the different routes of drug administration along with their advantages and disadvantages.
- (b) What is epilepsy? Write note on different type of seizures. Classify the antiepileptic drug. Write the mechanism of action, adverse effects of any two (1+4+1+2+2)antiepileptic drug.
- Differentiate local anaesthetics from general anaesthetics? Discuss the different stages of ether anaesthesia. Write note on pre-anaesthetic (2+5+3)medications.