Exam Date & Time: 26-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacology-I [PHA-BP404T]

Marks: 75	Duration: 180 mins.					
	I Multiple Choice Questions (MCQs)					
Answer all	the questions. Section Duration: 30 mins					
1)	Choose the drug that has very low volume of distribution?					
	1) Digoxin 2) Thiopentone 3) Warfarin 4) Chloroquine (1)					
2)	Which among the following requires energy for the transport process?					
	Drug diffusion of drugs of drugs 2) through plasma plasma pores. Passage of drugs Transport of drugs through P-glycoprotein pores. Absorption of glucose 4) through GLUT-4 transporter					
3)	Which among the following is an irreversible antagonist?					
	1) Prazosin 2) Phenoxybenzamine 3) Propranolol 4) Yohimbine (1)					
4)	Which of the autonomic drugs can dilate the pupil?					
	1) Acetylcholine 2) Atropine 3) Propranolol 4) Physostigmine (1)					
5)	When administered orally at equivalent doses, which of the following drugs will attain lowest concentration in the brain? (1) Dopamine 2) Diazepam 3) Codeine 4) Ephedrine					
6)	All the following antipsychotics show parkinsonism except -					
,	1) Haloperidol 2) Trifluperidol 3) Clozapine 4) Fluphenazine (1)					
7)	The flow of chloride ions across GABAA receptor-channel complex is blocked by -					
	1) Barbiturates 2) Bicuculline 3) Flumazenil 4) Diazepam (1)					
8)	Which among the following is a selective serotonin reuptake inhibitor?					
,	1) Clorgyline 2) Imipramine 3) Desipramine 4) Fluoxetine (1)					
9)	Homovanillic acid indicates high turnover of which of the following-					
	1) Dopamine 2) Adrenaline 3) Scrotonin 4) Histamine (1)					
10)	Which among the following is an inhibitor of drug metabolizing enzymes?					
	1) Carbamazepine 2) Phenobarbitone 3) Erythromycin 4) Rifampin (1)					
11)	Drug efficacy refers to -					
	Effectiveness The The dose The The dose The The dose The The dose The The					

	threatening condition	of response that can be produced by the drug	needed to produce a half-maximal effect	drug needed to produce a toxic effect	*
12)	A partial agonist has				_
	High affinity but low intrinsic activity	High affinity but no intrinsic activity	Low affinity but 3) high intrinsic activity	Low affinity and low intrinsic activity	(1)
13)	Which of the following	g statements best d	lescribes an 'Orphan	drug'?	
	It is a drug which acts on orphan receptors	It is a very cheap drug 3)	It is a drug which has no therapeutic use	It is a drug required for the treatment or prevention of a rare disease	(1)
14)	Accepted therapeutic following EXCEPT	indications for the	use of antimuscarinic	drugs include all of th	.e
	1) Hypertension	2) Motion sickness	3) Parkinson's disease	To produce mydriasis and cycloplegia	(1)
15)	Organophosphates inh	iibit			
	1) Anionic site of AChEs	2) Estertic : AChEs	site of 3)	Ach 4) None	(1)
16)	The main mechanism	of hyperpyrexia inc	duced by atropine inc	lude	
	1) Vasodialation	Inhibition of sweating	Through central actions	4) Increase in basal metabolic rate	(1)
17)	The side effects of Pho	enytoin is -			_
	1) Gum hypertrophy	2) Alopecia	3) Acne rosacea	4) Subungal exostosis	(1)
18)	Drug of choice for epi	lepsy in pregnancy	is-		
	1) Carbamazepine	2) Sodium Valproate	3) Phenobarbitone	4) Phenytoin	(1)
19)	An agent added to loca	al anaesthetics to sp	peed the onset of action	on is	(1)
	1) Methylparapben	2) Bicarbonate	3) Fentanyl	4) Adrenaline	$]^{(1)}$
20)	The μ opioid receptor	is responsible for th	ne following effects-		(1)
	1) Bradycardia	2) Miosis 3)	Hypothermia 4	Bronchodilation	$]^{(1)}$

1)

(10)

Answer all the questions.

2)	Outline the various steps involved in cholinergic transmission. Classify cholinergic drugs. Describe the pharmacological actions of acetylcholine on CVS and smooth muscle.	(10)
	indicate.	

Explain Phase-II biotransformation reactions with examples.

III Short Answers

Answer all the questions.

1)	List the factors that modify drug actions. Explain with examples any three factors	
	that modify the drug action.	(5)

Explain how alpha blockers are useful in the management of benign prostate hypertrophy and pheochromocytoma (5)

Giving examples, explain the mechanism of action of any two classes of drugs used in the management of parkinsonism (5)

4) Explain the autonomic and endocrine effects of chlorpromazine. (5)

5) With a neat diagram discuss the signal transduction mechanism of nuclear receptors. (5)

6) Classify Sedatives and Hypnotics. Explain the mechanism of action of Diazepam (5)

7) Classify anti-epileptic agents with examples. Describe the mechanism of action of any two classes of antiepileptic agents (5)

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