Total No. of Questions: 3 Total No. of Printed Pages:2

Enrollment No.....



Faculty of Pharmacy End Sem Examination May-2024

PY3CO14 Medicinal Chemistry -I

Programme: B. Pharm. Branch/Specialisation: Pharmacy **Duration: 3 Hrs.**Maximum Marks: 75

Duration: 5 Hrs. Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.

uitabl	e data	if necessary. Notations and symbols have their usual meaning.	
Q.1	i.	Define Partition coefficient.	2
	ii.	Define Drug Metabolism.	2
	iii.	Draw the structure of Phenylephrine.	2
	iv.	Draw the structure of Propranolol.	2
	v.	Draw the structure of Acetylcholine.	2
	vi.	Give the structure and uses of Ipratropium bromide.	2
	vii.	Define Sedatives with structure of any one drug.	2
	viii.	Give the structure and uses of Chlorpromazine hydrochloride.	2
	ix.	Give the name of any four drugs of Narcotics.	2
	х.	Give the structure and uses of Ibuprofen.	2
0.2		Attomat one true.	
Q.2	:	Attempt any two:	10
	i.	Define Drug metabolism. Explain the Phase I & II along with	10
	ii.	factors affecting metabolism.	10
	11.	Define, Classify and give SAR of Adrenergic Antagonist. Give	10
	iii.	the synthesis of Propanol.	5
	111.	(a) Write a short note on Protein Binding & Geometrical Isomerism.	3
		(b) Define Sympathomimetic agents. Give the Synthesis of	5
		Salbutamol.	
Q.3		Attempt any seven: Two questions from each section is compulsory.	
		Section - A	
	i.	Give the structure and synthesis of Neostigmine.	5
		-	

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ii.	Explain the Biosynthesis of acetylcholine.	5				
iii.	Define Cholinergic Blocking agents. Give the SAR of	5				
	Cholinolytic agents.					
	Section - B					
iv.	Define Barbiturates. Give the synthesis and Uses of	5				
	Phenobarbitone.					
v.	Give the synthesis of Diazepam & Barbital.	5				
vi.	Explain the SAR of Benzodiazepines.	5				
	Section - C					
vii.	Give the structure & synthesis of Halothane.	5				
viii.	Give the structure & synthesis of Ketamine Hydrochloride.	5				
ix.	Define Narcotic Antagonist. Give the structure & uses of any one					
	drug of this class.					

Scheme of Marking



Faculty of Pharmacy End Sem Examination May-2024 Medicinal Chemistry -I (T) - PY3CO14 (T)

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Duration: 3 Hrs.

Maximum Marks: 75

Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	Definition	2
	ii)	Definition	2
	iii)	Structure	2
	iv)	Structure	2
	v)	Structure	
	vi)	Structure	1/2
	vii)	Definition	2
	viii)	Definition Stoucture 1 Mark Any one use of drug 1 Mark	2
	ix)	Name of Four drugs. 0.5 Mark Each	2
	x)	Structure	2
Q.2	Atter	mpt any two:	
	i.	Definition	10
		Phase I & II	+2=
	1	Factors4 marks	
	ii.	Definition	10
		Classification	

		SAR	-
		Synthesis	
	iii.	Short note	5 me
		Definition	5
		Synthesis	
Q.3	Atten	npt any seven: Two questions from each section is compulsory.	
		Section - A	
	i.	structure and synthesis	5
	ii.	Diagram of Biosynthesis	5
	iii.	Definition	5
		Section - B	
	iv.	Definition	5
	v.	Synthesis	5
	vi.	SAR	5
1 4 4	11.1		
		Section - C	8
	vii.	Structure & Synthesis. 2.5 Mark Each Structure & Synthesis. 2.5 Mark Each Structure & Synthesis. 2.5 Mark Each	5
	viii.	Structure & Synthesis. 2.5 Mark Each	5
	ix.	Definition 1 Mark Structure 3 Marks	5
		Uses	

Phaylephluine Peropleanolo Propravolo !-OH Isopropylamine of-naphthol I pleat luopium Bluomide -Chlolipluomegine 90-COOC248 C2NFBRA CIDC2 hr

ralothame c) $c=c<\frac{cl}{H}$ $\frac{Hcl}{Addir}$ $cl-\frac{c}{c}-cH_2-cl}$ $\frac{3HF}{-3Hcl}$ $f-\frac{l}{c}-\frac{l}{cH_2}-cl}$ $\frac{l}{o}$ $\frac{N}{N}$ $\frac{N}{N}$ $\frac{l}{o}$ $\frac{N}{N}$ $\frac{N}{$ Retamine o-chborobenzonitole Bromocyclopeutane.