Question Paper

Exam Sale & Time: 09-May-2019 (02:00 PM - 05:00 PM)

<u>Nitrofurantoin</u> <u>Mephobarbital</u>



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm - Semester -IV
End Semester Examination, MAY- 2019
Exam Date:09-05-2019

Pharmaceutical Organic Chemistry-III [PCH-BP401T] Marks: 75 Duration: 180 mins. I Multiple Choice Questions (MCQs) Answer all the questions. Section Duration: 30 mins 1) Chair conformation is more stable than boat conformation because of (1)staggered bonds eclipsed bonds skew interactions axial bonds. Example for a stereo selective reaction (1)El reaction E2 reaction SN1 reaction addition of halogen to alkenes 3) 1,3 diazines are also known as . (1)Pyridine pyrimidine pyrazine pyridazine Example for a stereo specific reaction . (1)El reaction E2 reaction SN1 reaction addition of halogen to alkenes 5) Example for a diuretic drug (1)**Phenobarbital Furosemide**

			(1)
6)	Triazoles are		
	2 Nitrogens in a 6 membered ring		
	2 Nitrogens in a 7 membered ring		3 /
	3 Nitrogens in a 5 membered ring		
	2 Nitrogens in a 5 membered ring		
7)	Pyridine is more basic than		(1)
7)	Tyriume is more see.		
	pyrrole		
	thiophen		
	oxazole		
	thiazole		
8)	Carbamazepine is a membered ring		(1)
0)			
	4		
	5		
	6		
	7		(7)
9)	is used in Oppenauer oxidation		(1)
	<u>Liquid ammonia</u>		
	Aluminium isopropoxide		
	hydrogen peroxide		
	<u>LiAlH</u> 4		(1)
10)	Oxidation of quinoline using KMnO4 gives		
	Quinoline-1-oxide		
	Quinoline-2-oxide		
	pyridine-2,3-dicarboxylic acid		
	nicotinic acid		
11)	α,β-Benzopyrrole is		(1)
11)	α,ρ Βεπευρή		
	quinoline		
	benzimidazole		
	indole		
	isoquinoline		(7.)
12)	Indole upon reaction with ozone gives	Ţ	(1)
	hydroxybenzaldehyde		
	2-formamidobenzaldehyde		
	<u>octahydroindole</u>		

<u>benzimidazole</u>

-//	In quinoline nucleophilic substitution takes	place at position	(1)
- A			
	6		
1/ 2			
r)	Enantiomers have almost all identical	properties	(1)
	physical		
4	chemical		
7	biological		
	racemic		
15\	In Birch reduction aromatic rings are reduc	and to	(3)
15)	in birch reduction aromatic rings are reduc	ed to	(1)
	conjugated diene		
	unconjugated diene		
	<u>cyclohexane</u>		
	acyclic ring		
16)	2.3-benzoquinoline is prepared from		(1)
	p-aminobenzaldehyde		
	isoquinoline		
	<u>benzaldehyde</u>		
	o-amino diphenylmethane		
17)	Isomers with the same molecular formula a arrangement of atoms in space are called	and same connectivity of atoms but o	different (1)
	positional isomers		
ES.	<u>stereoisomers</u>		
	<u>functional isomers</u>		
	structural isomers		
0			(7)
	Sulphadoxine is a derivative of		(1)
	<u>pyrimidine</u>		
	purine		
	_oxazole		
	<u>oxepine</u>		
19)	Theophylline is		(1)
,			(-/
	4,5-diaminopyrimidine		
	a cardiac stimulant		
	a purine derivative		
	nerve stimulant		

20)	Pyrimethamine is the medicinal derivative of	(1)
	pyridine pyrimidine pyridazine piperidine	
	II Long Answers	•
Answer all t	he questions. Explain RS system of nomenclature of optical isomers. What are enantiomers and diastereomers? Explain.	(10)
2)	Write one method of synthesis of pyrrole and discuss the electrophilic reactions of pyrrole with an example. Give the structure and uses of Metronidazole and Carbamazepine.	(10)
	III Short Answers	
Answer all the 1)	ne questions. Explain Skraup synthesis of quinoline with mechanism.	(5)
	Explain Skraup synthesis of quinoffile with mechanism.	(3)
2)	Explain Gabriels method of synthesis of pyrimidine. Give the structure and uses of chloroquine.	(5)
3)	What is Clemmensen reduction? Explain	(5)
4)	Explain partial asymmetric synthesis and absolute asymmetric synthesis with example.	(5)
5)	Discuss the basicity of pyridine.	(5)
6)	What is a stereoselective reaction discuss with an example.	(5)
7)	Explain the conformational isomers of ethane and cyclohexane.	(5)

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