Bachelor of Pharmacy (B. Pharm) (CBCS Pattern) Third Semester BP 301T - Pharmaceutical Organic Chemistry-II

	Pages: 3 ne: Three Ho	ours	* 3 0 2 1	*	GUG/W/18/10884 Max. Marks : 75
	Notes: 1 2 3	. Discuss the reaction, m	echanism wh	ould be given wherever ned	cessary.
1.	Mult	20			
	i)	Cyclopropane when reacte	ed with Brom	ine it gives.	
	ŕ	a) 1, 2- Dibromopropane	b)	1, 3- Dibromopropane	
		c) 1, 4- Dibromopropane	a)	1, 1- Dibromopropane	
	ii)				
		a) Lewis acid	b)	Lewis base	
		c) Platinum	d)	Ni/Pt	
	iii)				
	,	Picric acid forms when ph a) Hydrogen	b)	Nitric acid	
		c) Sulphuric acid	d)	Formaldehyde	
	iv)	Aldehyde and ketones on	reductive am	ination gives	
	,	a) 1° amines	b)	2° amines	
		c) 1° or 2° amines	d)	3° amines	
	v)	When -COOH is attached	directly to th	e benzene wing the acid is	called.
		a) Aliphatic	b)	Alicyclic	
		c) Aromatic	d)	Carboxylic	
	vi)				
	/	Carboxylic group on the a a) O-directing	b)	P-directing	
		c) M-directing	d)	Both a and c	
	vii)				
	. ==/	Enzyme responsible for h a) Reductase	b)	Aconitase	
		c) Lipase	d)	Kinase	
	viii)				
	,	Which cycloalkane is the a) Cyclobutane	b)	Cyclopropane	
		c) Cyclohexane	d)	Cyclopentane	
	ix)				
	/	Which of the following is a) Biphenyl	b)	Diphenyl methane	
		c) Diphenylamine	d)	Naphthalene	
	x)				
	/	Identify the molecular for a) $C_2 H_2 n + 2$	b)	$C_n H_2(n+2)$	
		c) $C_2 H_2 n$	d)	$C_n H_2(n-2)$	

	X1)	•							
		a) Cyclobutane	b)	Cyclopropane					
		c) Cyclohexane	d)	Cycloheptane					
	xii)	Who has proposed the tetrahedral geometry of the alkanes.							
		a) Van't Hoff	b)	Baeyer					
		c) Both a & b	d)	None of above					
	•••								
	xiii)	C		•					
		a) Secondary aromatic amines	b)	Primary aromatic amines					
		c) Tertiary aromatic amines	d)	All the above					
	wiw)	Number of sigma bonds in Benzene is:							
xiv)		_	b)	3					
		a) 2 c) 4	d)	1					
		c) 4	u)	1					
	xv)	Libermann's Nitroso reaction is used to identify.							
	Α ()	a) 1° amine	b)	2° amine					
		c) 3° amine	d)	4° amines					
		c) 3 diffine	u)	1 diffices					
	xvi)	The example of best drying oil is.							
	11 (1)	a) Olive oil	b)	Linseed oil					
		c) Castor oil	d)	Groundnut oil					
		,							
	xvii)	i) Which of the following is an example of the isolated polynuclear aromatic compound.							
		a) Naphthalene	b)	Anthracene					
		c) Phenanthrene	d)	Biphenyl					
	xviii		oropan	e to adjust the triangle between three carbon					
		atom is.							
		a) 120°	b)	60°					
		c) 108°	d)	90°					
	:\	Electron billio ette els en Northelene e e est							
	xix)	Electrophilic attack on Napthalene occur act.							
		a) C ₁	b)	C_2					
		c) C ₃	d)	C_4					
	xx)	Which of the following cycloalka	ne hav	ve the highest heat of combustion.					
		a) Cyclobutene	b)	Cyclopropane					
		c) Cyclohexane	d)	All the above					
	Solv	e any two questions.			20				
	a)		ith the method of preparation of the						
		Anthracene.							
b) Explain the electrophilic aromatic substitution reactions of the Benzene.									
c) Discuss the reactivity and stability along with preparation and reactions of									
	c)		aiong	with preparation and reactions of					
cycloalkanes.									

2.

- a) Discuss the Kolbe's reaction.
- b) Explain the basicity of amines along with effect of substitution on basicity.
- c) Describe with mechanism the Reimer. Thiemann reaction.
- d) Write a note on orientation of benzene.
- e) Give the synthesis of picric acid & B. Naphthols.
- f) Give the Haworth synthesis of Naphthalene.
- g) Discuss the reactions of benzoic acid.
- h) Explain the replacement reactions of diazonium ralt.
- i) Explain the acid value and saponification value along with their significance.
