

(Deemed to be University) -Estd. u/s 3 of UGC Act 1956

Regulation: R18

I B.Pharmacy II Semester Regular/Supplementary Examinations – June, 2024 PHARMACEUTICAL ORGANIC CHEMISTRY-1

Time: 3 hours

SECTION – A

Answer All questions

1. The reaction of H	Br with Propen	e in the presen	nce of Per	oxide gives		
A) n – Propyl bron	nide B) Isopro	opyl bromide	C) Al	lyl bromide D) 3-Bromo Propene	
2. The Compounds w	hich has same i	nolecular form	nula but d	lifferent struct	ures are known as-	
A) Isomers	B) Images	C) Reagents		D) Product		
3. Alkenes are also k	nown as					
A) Olefins	B) Paraffin	C) Acetylene	•	D) Saturated of	compounds	
4. Chlorination of Me	thane is					
A) An addition reaction				B) Free radical reaction		
C) Polymerization			D) Elimination reaction			
5. Lucas test is used t	o differentiate					
A) Alcohols	B) Ethers	C) Amines		D) Aldehydes		
6. Conversion of Carboxylic acid to an Ester is known as						
A) Reduction	B) Oxidation	C) Esterifica	ution	D) Polymeriza	ation	
7. An example for Primary aromatic amine is						
A) Adrenaline	B) Aniline	C) Anisole		D) Anthrasene	e	
8. Oil of Winter green	ı is					
A) Aspirin B) Methyl salicylate C) Calcium Salicylate D) Methyl oxalate						
9. The addition of hydrogen chloride to the Un symmetrical alkene is explained by						
A) Saytezef's rule			B) Markovnikoff's rule			
C) Anti Markovnikoff's rule			D) None of them.			
10.Conversion of an Aldehyde in to Alcohol involves						
A) Reduction	B) Oxidation	C) Es	sterificatio	on D) Pol	ymerization	
11) A derivative of 1,	,3,5 –trioxane is	5				
A) Acedaldehyde				B) Paraldehyde		
C) Benzaldehyde			D) Cinnamaldehyde			
12. Phenol is also kn	own as					
A) Carboxylic ac	id B) Car	bonic acid	C) Carb	oolic acid	D) None of them	
13. Which of the follo	owing sequence	e regarding rel	ative stab	ility of Free ra	dical is correct?	
A) $3^0 > 2^0 > 1^0$	B) 2 ⁰ >	$3^{0} > 1^{0}$	C) $1^{0} > 2$	$2^{0} > 3^{0}$	D) 1 ⁰ >3 ⁰ >2 ⁰	
14. Walden inversion	takes place in					
A) SN1	B) SN2	C) E2	2	d) none of the	m	
15. The identification test for Carboxylic acid						
A) Litmus test	B) Ester test	C) So	odium bi c	carbonate test	D) All of them.	



Code No: 18BP017/9

Max. Marks:75M

20X1M=20M

(B.PHARM)

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- 16. Chloral hydrate is used as

 A) Hypnotic
 B) CNS stimulant
 C) Anti pyretic
 D) All of them

 17. What is the effect of an electron withdrawing effect of Cl' group on the acidity of the Carboxylic acid

 A) Increases
 B) Decreases
 C) No effect
 D) May increase or decrease.

 18. Which of the following is used as Preservative?
- A) CholorobutanolB) ChloroformC) IodoformD) All of them19. Esterification is the chemical reaction of ------ with an Alcohol
- A) Amide B) Carboxylic acid C) Amine D) None of them.20. Which of the following agent is used as Urinary anti infective
- A) HexamineB) ChloralC) BenzaldehydeD) None of them.

SECTION – B

Answer any 2 out of 3 questions

- 21. Explain about a) Mechanism of Aldol condensationb) Mechanism of Perkin Condensation
- 22. Explain Markovnikoff's and Anti- Markovnikoff's rule with suitable examples?
- 23. Write the Chemical Structure and Uses ofA) HexamineB) Chloro butanolC) Acetyl Salicylic acidD) Benzyl benzoateE) Amphetamine.

SECTION – C

Answer any Seven questions

- 24. Write about Benzoin Condensation?
- 25. Explain the IUPAC nomenclature of Aldehyde and ketones with examples.
- 26. Distinguish between E1& E2 reactions?
- 27. Explain the effects of substituents on the Basicity of Amines?
- 28. What is Ozonolysis and write its significance?
- 29. Write the Chemical structure and Uses of Cinnamaldehyde and Methyl Salicylate?
- 30. Explain the acidity of Carboxylic acid and the effect on substituents on it?
- 31. What is Walden SN₂ Inversion? Mention the factors affecting SN₂ reaction?
- 32. Discuss the Stability of Carbocations?

2X10M=20M

7X5M=35M