PARUL UNIVERSITY FACULTY OF PHARMACY B. Pharm. Winter 2019 - 20 Examination

Semester: 2 Subject Code: BP202T Subject Name: Pharmaceutical Organic Chemistry-I		Date: 22/11/2019 Time: 2.00pm to 5:00 pm Total Marks: 75	
Inst	ructions:		
1. F	igures to the right indicate maximum marks.		
2. N	lake suitable assumptions wherever necessary.		
01	Multiple Choice Questions (MCOs) (1 Mark Each)		(20)
1	Amines which are bonded with alkyl group are		(20)
1.	a) Primary amines	b) Quaternary amines	
	c) Secondary amines	d) Tertiary amines	
2	What is the correct formula of salicylic acid?	d) Tertiary animes	
2.	$_{\rm a)}$ C ₇ H ₂ O ₂	b) $C_7H_4O_2$	
	a) $C_1H_2O_2$	d) C H O	
2	C) $C_7 \Pi_6 O_3$ The [4+2] evalue difficult of a conjugated diama and a di	$d = C_6 H_6 O_3$	
3.	The [4+2]-cycloaddition of a conjugated diene and a di	h) Aldel condensation	
	a) Diels-Alder reaction	b) Aldoi condensation	
4	c) Electromeric effect	d) Benzoin condensation	
4.	which molecule is an example of a ketone?		
	a) Ethanal (Acetaldenyde)	b) Propan-2-one (Acetone)	
_	c) Propanamide	d) Ethanoic annydride (Acetic annydride)	
5.	What is IUPAC name of Aniline?	1	
	a) Aminobenzene	b) Nitrobenzene	
6	c) Methoxybenzene	d) None	
6.	Which is the correct order of stability for carbocation		
	a) 3>1>2	b) 3>2>1	
7	c) 1>2>3	d) 3>1<2	
7.	In Markownikoff's rule a following compound is from	2-Methylbut-2-en as major product	
	a) 2-Bromo-2-Methylbutane	b) 2-Bromo-3-Methylbutane	
0	c) 3-Bromo-2-Methylbutane	d) 3-Bromo-3-Methylbutane	
8.	Benzoic acid having the molecular formula		
	a) $C_7 H_6 O_2$	b) $C_6H_7O_2$	
	c) $C_7H_5O_2$	d) $C_7 H_6 O_3$	
9.	Condensation between two different aldehydes is calle	d as:	
	a) Aldol Condensation	b) Benzoin Condensation	
	c) Cross aldol condensation	d) Carbylamine reaction	
10.	Citric acid is used in		
	a) Culinary preparation	b) Flavoring agent	
	c) Natural preservative	d) All of above	
11.	Benedict's reagent contains		
	a) KMnO ₄	b) CuSO ₄	
	c) Sodium citrate	d) b, c both	
12.	If electron withdrawing substituents are added in carbo	xylic acid	
	a) Increase acidity	b) Decrease acidity	
	c) Increase basicity	d) Decrease basicity	
13.	Correct IUPAC name of HCOOH is		
	a) Methanoic acid	b) Formic acid	
	c) Methanol	d) Ethanoic acid	
14.	Tollen's test is used for		
	a) Carboxylic acid	b) Alcohols	
	c) Aldehydes and ketones	d) Aliphatis amines	

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20)

15.	5. SN_2 reactions involving chiral electrophiles usually proceed with:			
	a) Retention of configuration	b) Inversion of configuration		
	c) Equal amount of inversion and retention of	d) None of above		
	configuration			
16.	Ethyl alcohol is used as			
	a) Medical solvent	b) Antiseptic		
	c) Antidote	d) All of above		
17.	What is correct structure of Chloroform			
	a) CHCl ₃	b) CCl ₄		
	c) CO ₂	d) CH ₄		
18.	The functional group of aldehyde is:			
	a) -CHO	b) COOH		
	c) C=O	d) COOR		
19.	Chlorobutanol used as			
	a) Antibacterial	b) Fungicidal		
	c) Preservative	d) All of above		
20.	In cannizzaro reaction, HCHO reacts in presence of:			
	a) Conc.NaOH	b) Conc.NaCl		
	c) Conc.HCl	d) Conc.HNO ₃		
Q.2	2 Long Answers (any 2 out of 3) (10 Mark Each) (1			
1.	Give a brief note on Aldol condensation and Perkin condensation with examples.			
2.	Write a note on Elimination reactions.			
3.	Write a short note on SN1 reaction with kinetics, and order of reactivity of alkyl halides.			
Q.3	3 Short Answers (any 7 out of 9) (5 Mark Each)(35			
1.	Give structure and write uses of Ethanolamine and Amphetamine.			
2.	Explain in brief about allylic rearrangement.			
3.	Write short notes on Structural Isomerism of organic compounds.			
4.	Write a note on basicity of aliphatic amines in brief with examples.			
5.	Write a note on Benzoin condensation.			
6.	Give a brief account on SP ² hybridization in alkanes.			

- 7. Write a note on Markonikoffs and Antimarkonikoffs orientation.
- 8. Describe briefly Diel's-Alder reaction with mechanism.
- 9. Brief note on acidity of carboxylic acids & effect of substituents on acidity.