Soat	No:	Enrollment No:			
Stat .	PARUL UNIVERSITY FACULTY OF PHARMACY				
~	B. Pharm. Winter 2022				
	ester: 5	Date: 11/10/2022			
Subject Code: BP501T		Time: 10:00 am to 01:00 pm			
	ect Name: Medicinal Chemistry – II	Total Marks: 75			
	uctions:				
-	gures to the right indicate maximum marks.  Aske suitable assumptions wherever necessary.				
Q.1	Multiple Choice Questions (MCQs) (1 Mark Each)	(20)			
1.	Which heterocyclic ring is present in Triprolidine Hy	drochloride?			
	a) furan, 1,3-thiazole	b) pyridine, furan			
	c) pyridine, pyrrolidine	d) pyrrolidine, thiazole			
2.	L-Thyroxine containphenyl ring.				
	a) 3	b) 2			
	c) 1	d) 0			
3.	Mechlorethamine is use for the treatment of				
	a) Angina pectoris	b) H1–antagonists			
	c) Hodgkin's lymphoma	d) Erectile dysfunction			
4.	Voglibose is use for the treatment of				
	a) Diabetes mellitus	b) Congestive Heart Failure			
	c) Thyroid	d) Cancer			
5.	Methyldopate hydrochloride is				
	a) Oral contraceptives	b) Anti-hypertensive Agents			
	c) Anti-hyperlipidemic agents	d) Antidiabetic agents			
6.	Dibucaine contain which heterocyclic ring?				
	a) Quinoline	b) Isoquinoline			
	c) Thiazolidinediones	d) Oxazolidinone			
7.	Glimepiride is				
	a) Biguanides	b) Meglitinides			
	c) Thiazolidinediones	d) Sulfonylureas			
8.	Clofibrate act by				
	a) Increase in secretion of lipids into the bile and	b) Stop the synthesis of vitamin K-dependent			
	ultimately the intestine	factors			
	c) Inhibits active chloride reabsorption at the	d) By stopping the sodium ions from passing			
	early distal tubule via the Na-Cl cotransporter	through the voltage-gated channels			
9.	Following are the example of Loop diuretics <b>EXCEP</b>	Γ			
	a) Furosemide	b) Bumetanide			
	c) Nifedipine	d) Ethacrynic acid			
10.	Following are the example of proton pump inhibitors l	EXCEPT			
	a) Rabeprazole	b) Omeprazole			
	c) Cimetidine	d) Lansoprazole			
11.	Nitroglycerin is also known as				
	a) glyceryl tetranitrate	b) glyceryl drinitrate			
	c) glyceryl trinitrate	d) glyceryl mononitrate			
12.	Following all are the antibiotics excepts				
	a) Dactinomycin	b) Cetirizine			
	c) Bleomycin	d) Daunorubicin			
13.	Which heterocyclic ring is present in Acetazolamide?				
	a) thiadiazole	b) oxazole			

d) thaizole

c)pyridine

14.	Clofibrate is		
	a) Local Anesthetics	b) Oral contraceptives	
	c) Anti-hyperlipidemic agents	d) none of above	
15.	Tolbutamide is		
	a) Sulfonylureas	b) Thiazolidinediones	
	c) Biguanides	d) Meglitinides	
16.	Which one is starting material for synthesis of Benzocaine?		
	a) p-amino benzoic acid	b) Pyrane	
	c) Cyclohexane carboxylic acid	d) Oxazole	
17.	Following all drugs are the example of aromatic EXCEPT		
	a) Diphenhydramine	b) Cetirizine	
	c) Metformin	d) Furosemide	
18.	Mannitol is which type of diuretics?		
	a) Osmotic Diuretics	b) Carbonic anhydrase inhibitors	
	c) Loop diuretics	d) Potassium sparing Diuretics	
19.	Mechanism of action of Warfarin is		
	a) Gastric Proton pump inhibitors	b) inhibits the vitamin K epoxide reductase	
		complex 1	
	c) Loop diuretics	d) H1-antagonists	
20.	IUPAC name of Nifedipine is		
	a) dimethyl 2,6-dimethyl-2-(2-nitrophenyl)-2,4-	b) dimethyl 2,3-dimethyl-4-(2-nitrophenyl)-	
	dihydropyridine	1,4-dihydropyridine-3,5-dicarboxylate	
	c) dimethyl 2,6-dimethyl-4-(2-nitrophenyl)-1,4-	d) 2-(2-nitrophenyl)-1,4-dihydropyridine-	
	dihydropyridine-3,5-dicarboxylate	3,5-dicarboxylate	
Q.2	Long Answers (any 2 out of 3) (10 Mark Each)		(20)
1.	Classify H1-antagonists. Write SAR of H1-antagonis	ets.	
2.	Give the details classification of Diuretics. Write synt	hesis of Furosemide.	
3.	Write a brief note about the Antidiabetic agents. Write synthesis of Tolbutamide.		
Q.3	<b>Short Answers (any 7 out of 9)</b> (5 Mark Each)		(35)
1.	Write SAR of Local anesthetics.		
2.	Give a brief note on Thyroid and antithyroid drugs.		
3.	Explain in brief about the Anti-arrhythmic Drugs.		
4.	Classify Anti-neoplastic agents.		
5.	Write down the synthesis of Nitroglycerin and Isosort	pide dinitrite.	
6.	Write down the synthesis of Methyldopate hydrochloride and Warfarin.		
7.	Write a short note on Drugs acting on Endocrine syste	em.	
8.	Explain the mechanism of action of the Calcium channel blockers.		
9.	Write mechanism of action of the Gastric Proton pump inhibitors.		