**1** | M-76786

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Rol	l No.			Total No. of Pages: 03	
Tot	al No. of Question	s: 22			
		Pharma (2017 E. ICINAL CHEM Subject Cod M.Code	ISTRY II- TH	•	
Tim	e:3 Hrs.			Max. Marks: 75	
1. 2. 3.	each. SECTION-B contain have to attempt any	PULSORY consist  IS THREE question  TWO questions.  IS NINE questions	ns carrying TEN	tions carrying TWO marks marks each and students marks each and students	
SECTION-A					
Choose the correct option in the following objective type questions:					
1.	Enzymatic decarboxyl	ation of histidine lea	ds to the formation	of	
	A. Histamine B.	. Dopamine C	. Serotonin D	. Noradrenaline	
2.	is a aziridine ring containing antineoplastic agent.				
	A. Melphalan B.	. Chlorambucil C	. Busulfan D	o. Thiotepa	
3.	3. Amyl nitrite is an ester of isoamyl alcohol with				
	A. Nitric acid B.	. Nitrous acid C	. Nitric oxide D	. Nitrous oxide	
4.	Site of action of carbonic anhydride inhibitor class of diuretic is				
	A. Proximal tubule	В	. Loop of Henle		
	C. Distal Tubule	D	. Collecting tubul	e	
5.	is acyl-2-amino	imidazoline based se	elective $\alpha_2$ adrenoc	eptors agonist	
	A. Clonidine B.	. Guanabenz C	. Guanfacine D	. L-Methyldopa	



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6.	is an alkaloid isolated from cinchona bark and used as anti-arrhythmic drug				
	A. Quinidine	B. Quinine			
	C. Cinchonine	D. Cinchonidine			
7.	In $5\alpha$ -steroids, ring A and B are	5α-steroids, ring A and B are fused together withfashion			
	A. Trans	B. Cis			
	C. Anti	D. Syn			
8.	is characteristic feature of progestogens				
	A. $\Delta^4 - 3 - \text{Keto}$	B. Aromatic ring A			
	C. 17–β-hydroxy	D. 11-β-Hydroxy			
9.	. Naturally occurring thyroid hormones possess the alanine side chain				
	A. L B. D	C. L&D both D. All of these			
10	. Which drug belongs to 2 <sup>nd</sup> gener	ation oral hypoglycemic agent?			
	A. Glyburide	B. Tolbutamide			
	C. Acetohexamide	D. Chlorpropamide			
		SECTION D			
		SECTION-B			
11.	Classify antineoplastic agents with one structural examples of each. Give synthesis and MOA of mercaptopurine.				
12.	Discuss the development of angiotensin converting enzyme inhibitors for the treatment of hypertension. Give synthesis and MOA of methyldopa hydrochloride.				
13.	a) Describe detailed SAR of loc	eal anesthetics.			
	b) Give synthesis and MOA of j	procaine.			
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## **SECTION-C**

- 14. Give structural classification of H<sub>1</sub>-antagonist and synthesis of promethazine.
- 15. Write a note on calcium channel blockers used for the treatment of angina.
- 16. Draw structures of any three H<sub>2</sub>-antagonists and give synthesis of any one of these.
- 17. Describe structures of thiazide class of diuretics. Give synthesis of chlorthiazide.
- 18. Discuss structures of cardiac glycoside used in the treatment of congestive heart failure.
- 19. Draw structures of any four anti-coagulants. Give structures of warfarin.
- 20. Describe typical structural feature of glucocorticoids and mineralocorticoids, citing two examples of each.
- 21. Give brief account on glucosidase inhibitors as anti-diabetic agents and synthesis of tolbutamide.
- 22. Write short note on oral contraceptives.

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NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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