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Roll No.	Total No. of Pages : 03			
Total No. of Questions : 22				
B.Pharma (2017 Batch) (Sem5)  MEDICINAL CHEMISTRY II- THEORY  Subject Code: BP-501T  M.Code: 76786				
Time : 3 Hrs.	Max. Marks : 75			
INSTRUCTIONS TO CANDIDATES :				
<ol> <li>SECTION-A is COMPULSORY conseach.</li> </ol>	sting of TEN questions carrying TWO marks			
2. SECTION-B contains THREE quest	ions carrying TEN marks each and students			
have to attempt any TWO questions.  3. SECTION-C contains NINE questions carrying FIVE marks each and students have to attempt any SEVEN questions.				
SECTION-A				
Choose the correct option in the following objective type questions:				
1. Enzymatic decarboxylation of histidine	eads to the formation of			
A. Histamine B. Dopamine	C. Serotonin D. Noradrenaline			
is a aziridine ring containing antii	neoplastic agent.			
A. Melphalan B. Chlorambueil	C. Busulfan D. Thiotepa			
<ol> <li>Amyl nitrite is an ester of isoamyl alcoh</li> </ol>	ol with			
A. Nitric acid B. Nitrous acid	C. Nitric oxide D. Nitrous oxide			
<ol> <li>Site of action of carbonic anhydride inhi</li> </ol>	bitor class of diuretic is			
A. Proximal tubule	B. Loop of Henle			
C. Distal Tubule	D. Collecting tubule			
is acyl-2-aminoimidazoline based	selective $\alpha_2$ adrenoceptors agonist			
A. Clonidine B. Guanabenz	C. Guanfacine D. L-Methyldopa			



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6.	is an alkaloid isolated from cinch	ona 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 fused to	ogether withfashion	
	A. Trans	B. Cis	
	C. Anti	D. Syn	
8.	is characteristic feature of proges	togens	
	A. $\Delta^4 - 3 - \text{Keto}$	B. Aromatic ring A	
	C. 17–β-hydroxy	D. 11-β-Hydroxy	
9.	Naturally occurring thyroid hormones p	ossess 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> generation or	ral hypoglycemic agent?	
	A. Glyburide	B. Tolbutamide	
	C. Acetohexamide	D. Chlorpropamide	
	EIP.	0	
SECTION-B			
11.	Classify antineoplastic agents with one MOA of mercaptopurine.	e structural examples of each. Give synthesis	and
12.	Discuss the development of angiotensis hypertension. Give synthesis and MOA	of methyldopa hydrochloride.	nt of
13.	a) Describe detailed SAR of local anes	thetics.	
	b) Give synthesis and MOA of procain	e.	
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## SECTION-C

- Give structural classification of H<sub>1</sub>-antagonist and synthesis of promethazine.
- Write a note on calcium channel blockers used for the treatment of angina.
- 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.
- 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.
- Describe typical structural feature of glucocorticoids and mineralocorticoids, citing two examples of each.
- Give brief account on glucosidase inhibitors as anti-diabetic agents and synthesis of tolbutamide.
- 22. Write short note on oral contraceptives.

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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