

rrinted rage: 1 of 1 Subject Code: BP601T

Roll No:

## BPHARMA (SEM VI) THEORY EXAMINATION 2021-22 MEDICINAL CHEMISTRY III - THEORY

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

### SECTION A

ı.	Attempt all questions in brief.	10 x 2 = 20	
a	What is B-lactam antibiotics? Give some example		
b.	Draw the chemical structures of minocycline and		
c,	Write the mechanism of action of Chloramphenic	ol.	
d.	Define prodrugs with examples.		
e.	Enlist urinary tract anti-infective agents.	pharmacareerinsider.com	
f.	Write the mode of action and uses of zidovudine.	1	
R.	Write mode of action and synthesis of isoniazid.		
\frac{1}{2}b	Define anthelmintic agents. Write the synthesis of Mebendazole.		
i.	Define QSAR.		
j.	Describe applications of combinatorial Chemistry	·	
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#### SECTION B

2.	Attempt any two parts of the following:	$2 \times 10 = 20$
•	Discuss in detail about cephalosporins with suitable examples.	
ъ.	Explain SAR of tetracycline. Discuss its mechanism of action and uses.	
c.	Describe structure activity relationship of 4-amino quinolone. Explain mechanism synthesis of Chloroquine.	of action and
1	.l	

#### pharmacareerinsider.com SECTION C

3.	Attempt any five parts of the following:	$7 \times 5 = 35$
<b>a</b> .	Explain substituent hydrophobicity constant in relation to drug design.	
<b>.</b>	Explain in detail about aminoglycosides with examples.	
ر <sub>ع</sub>	Discuss chemistry, classification and SAR of Sulfonamides with suitable examples.	
d.,	Classify synthetic antifungal agents. Describe mechanism of action, synthesis Miconazole.	and uses of
٠	Define combinatorial chemistry and explain in detail about solid phase synthesis.	,
F	Define and classify anti tubercular agents. Explain in detail with suitable example.	
3	Describe the synthesis and uses of Acyclovir, Ciprofloxacin and Dapsone.	

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 $7 \times 5 = 35$