Seat Number BP-601T MEDICINAL CHEMISTRY-III (736601)	CJ-03
Total Pages : 3] Time : 3 Hours Max. Ma	
Note: (1) Do not write anything on question paper exce	ept Seat No.
(2) Draw a well labelled diagram wherever neces	sary.
(3) Figures to the right indicate full marks.	
1. Solve the following questions:	10×2=20
(a) What are β-lactum antibiotics? Give one example	9
(b) Discuss about the mode of action of macrolides.	
(c) Define prodrug with an example.	
(d) Give the synthesis of Isoniazid.	
(e) Give the synthesis of Nitrofurantoin.	

- (f) Discuss about the mode of action of amantadine HCl.
- (g) Comment on : Antifungal antibiotics.
- (h) Draw the structures of:
 - (i) Dapsone
 - (ii) Trimethoprim.
- (i) What is molecular docking?
- (j) Give any four applications of solid phase synthesis.
- 2. Solve any two long answer questions :

 $2 \times 10 = 20$

- (a) Define and classify in brief—antibiotics with suitable examples and discuss about the SAR of tetracyclines.
- (b) What are antiviral agents? Classify them with suitable examples and give mode of action and SAR of quinolones.

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	(c)	Define QSAR and explain the various parameters used in QSAR and also	
		discuss in short about the limitations of docking.	
3.	Solve	e any seven questions from the following:	5=35
	(a)	Write a note on SAR of cephalosporins.	
	(b)	What are antimalarial agents? Explain etiology of malaria.	
	(c)	Comment on types and applications of prodrugs.	
	(d)	Give the mechanism of action and synthesis of acyclovir.	
	(e)	Classify antiamoebic drugs and give the synthesis of metronidazole.	
	Ø	Write the mechanism of action, uses and adverse effect of pyrizinamide	
	(g)	Give the structure, mechanism of action and uses of mebendazol	e.
	(h)	Write a note on sulphonamides.	
	(i)	Comment on pharmacophore modelling.	
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