R19

Code: BP601T

B.Pharm III Year II Semester (R19) Supplementary Examinations January/February 2023 **MEDICINAL CHEMISTRY - III**

Time: 3 hours Max. Marks: 75

PART - A

(Compulsory Question)

1	(a) (b) (c) (d) (e) (f) (g) (h) (i)	Answer the following: (10 X 02 = 20 Marks) Structure of any two cephalosporins. MOA of tetracyclines. Structure and uses of Proguanil. What is Mutual prodrug. Brief about Nalidixic acid. What is HIV Protease inhibitors. Write benzimidazole anthelmintics. Classify antiprotozoal agents. Write short note on Hansch Analysis. List out various approaches of drug design.	2M 2M 2M 2M 2M 2M 2M 2M 2M 2M
		PART – B	
2		(Answer any two questions: 02 X 10 = 20 Marks) Define Tuberculosis and Anti-tubercular agents. Write about synthesis, mechanism of action of	10M
2		Isoniazid and para amino salicylic acid.	TOW
3		Write about the nomenclature, classification and SAR of penicillin.	10M
4		Define Anti – malarial drugs, write about its classification and synthesis of Chloroquine and Pamaquine.	10M
		PART – C (Answer any seven questions: 07 X 05 = 35 Marks)	
5		Write a short note on Beta lactamase inhibitors.	5M
6		Write short notes on Monobactam antibiotics.	5M
7		Write a note on Macrolide antibiotics.	5M
8		Write about SAR and stereochemistry of Chloramphenicol.	5M
9		Write about synthesis and uses of Ciprofloxacin.	5M
10		Write about the synthesis and uses of Nitrofurantoin.	5M
11		Write a note on anti fungal antibiotics.	5M
12		Write the mode of action, synthesis and uses of Metronidazole.	5M
13		Write short notes on combinatorial chemistry.	5M

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B.Pharm III Year II Semester (R19) Regular Examinations July/August 2022 MEDICINAL CHEMISTRY – III

Time: 3 hours Max. Marks: 75

PART - A

(Compulsory Question)

			(Compulsory Question)	

1			Answer the following: (10 X 02 = 20 Marks)	
		(a)	What are beta lactamase inhibitors?	2M
		(b)	Write a note on monobactam antibiotics.	2M
		(c)	Give the mechanism of action of erythromycin.	2M
		(d)	Write the structure and uses of pamaquine.	2M
		(e)	Write the structure of Amantadine HCI.	2M
		(f)	Give the structure and uses of rifampicin.	2M
		(g)	Write the mechanism of action of albendazole.	2M
		(h)	Write the structure and uses of dapsone.	2M
		(i)	Define combinatorial chemistry.	2M
		(j)	Define pharmacophore.	2M
			PART – B	
			(Answer any two questions: 02 X 10 = 20 Marks)	
2			Discuss briefly about chemistry, classification and SAR of sulfonamides.	10M
3	3		Write the nomenclature, classification and Structure activity relationship of tetracycline.	10M
4	1		Write about the physico-chemical parameters used in Quantitative Structure Activity Relationship (QSAR) studies.	10M
			PART – C	
			(Answer any seven questions: 07 X 05 = 35 Marks)	
	5		Write a note on amino glycosides.	5M
(6		Write the structure, mechanism of action and uses of any three cephalosporin.	5M
	7		Write about synthesis of trimethoprim and dapsone.	5M
d	8		Write a note on quinolines as anti malarial agents.	5M
	9		Classification of anti – viral agents.	5M
1	0		Discuss about structure activity relationship of quinolones.	5M
1	1		Write about synthesis of miconazole and tolnaftate.	5M
1	2		Write the structures for the following: (i) Ketoconazole. (ii) Thiabendazole. (iii) Sulfamethoxazole. (iv) Clotrimazole. (v) Diethylcarbamazine citrate.	5M
1	3		Explain about molecular docking techniques.	5M