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L-285-2019

FACULTY OF SCIENCE

M.Sc. (Second Year) (Fourth Semester) EXAMINATION MARCH/APRIL, 2019

(CBCS Pattern)

ORGANIC CHEMISTRY

Paper XXIII CH-544/2A

(Medicinal Chemistry—II)

(Tuesday, 30-4-2019)

Time: 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

- N.B. :— (i) Attempt All questions.
 - (ii) Figures to the right indicate full marks.
- 1. Write the answers of any three:

15

- (a) Discuss about the drugs used to test liver functions.
- (b) How is Immunology used in the treatment of cancer?
- (c) Offer synthesis of primaquine.
- (d) Discuss SAR and mechanism of action of Biguanides.
- (e) Give synthesis and uses of Allopurinol.
- 2. Attempt any three of the following:

15

- (a) Give synthesis and SAR of pentothal sodium.
- (b) Explain the terms:
 - (i) Sacroma
 - (ii) Metastases.
- (c) What are antimalarial drugs? How are they classified?

P.T.O.

WT		(2) L—285—2019
	(d)	Give the concept of Anthelmintic agents offer synthesis of Mebendozol.
	(e)	What are Antihypertensive drugs? Give synthesis and structure activity of Methyldopa.
3.	(a)	What are antianginal drugs? Give types of angina pectoris. Explain mechanism of action of antianginal drugs.
		Discuss SAR of methyl salicylate, mefenamic acid, phenyl butazone and Iodomethazone.
	(<i>b</i>)	What are sedatives and hypnotics? Give SAR of sulphones.
		Discuss SAR of 8-Aminoquinoline derivatives as antimalarias. Give synthesis of pyrimethamine.
4.	(a)	Define sweetening agents. Discuss about Saccharin, P-Phenyl urea and Diperiamol.
	25	Offer synthesis or procaine, amitriptyline and chloropromazine.
	(b)	Discuss about the use of Hormones and antibiotics as anticancer agents.
25.23 25.25		
		Discuss SAR of Morphine and Methadone.
5.	(A)	Select the <i>correct</i> alternatives in the following: 5
		(i) The life-cycle of HIV is about days.
		(a) 1.5
		(b) 15
800 0,00		(c) 20
2000 2000 2000 2000 2000 2000 2000 200	8 2 2 2 C	(d) 25
0,74	N 80 6	'8' 8' 8' 8' 8

WT			(3) L—285—2019	9
(ii)	The te	rminal nitrogen in should be substituted	d
		at two	o carbon chain.	5 5 5 7
		(a)	Verapamil	
		(<i>b</i>)	P-phenyl urea	7, 4
		(c)	Sulphonyl urea	
		(<i>d</i>)	Sodium saccharin	0.77
((iii)	Mefen	amic acid is the derivative of	
		(a)	Benzoic acid	
		(<i>b</i>)	Salicyclic acid	
		(c)	Phthalic acid	
		(d)	Anthranilic acid	
(iv)	Carcin	noma arises fromcells.	
		(a)	Ectodermal	
	57.5	(<i>b</i>)	Mesodermal	
		(c)	Endodermal	
		(d)	Myocardial	
	v)	inner	disease is due to adhesion of platelets to the vascular wall of arteries.	е
	15 45 45 45 45 45 45 45 45 45 45 45 45 45	(a)	Anginapectorin	
		(<i>b</i>)	Arrthymia	
		(c)	Conjusted heart failure	
		(d)	Thromboembolic disease	
(B) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vrite	short	notes on any two:)
	a)	Paten	t application under PCT	
	b)	Recen	t development in the treatment of AIDS	
	<i>c</i>)	SAR o	of Butyrophenone derivatives	
L—285—201	9	5,37	3	