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	(3 Hours)	[lotal Marks : 60						
	N.B.: (1) Figures to the right indicate full marks. (2) All questions are compulsory.							
I A	Answer any Four of the following:							
	a. Explain the following terms:	3						
	1) Pharmacon 2) Therapeutic Index 3) LD ₅₀							
t	o. Explain oral route of drug administration. Mention it's any tw	vo advantages.						
C	c. What is meant by:	: 3						
	(i) Generic name (ii) Pharmacopoeia (iii) Systematic name							
	d. How CNS drugs are classified on the basis of their physiolo							
	Explain the concept of hypnosis, sedation and anesthesia.	3						
İ	f. What are drugs? Give requirements of an ideal drug.	3						
2 A	Answer any four of the following:							
	a. Explain the mechanism of inflammation. Mention causes of	inflammation. 3						
t	b. Describe mechanism of histamine release. Explain its action	n with suitable 3						
	chemical reaction.							
C	How cardiovascular drugs are classified on the basis of their action?	physiological 3						
C	d. What is Insulin therapy? Give any two drawbacks of insuling	therapy. 3						
6	e. Explain the mode of action of Barbiturates as sedatives and	hypnotics. 3						
f	f. Give the synthesis of Levodopa from Vanillin.	3						
3. A	Answer any four of the following:							
8	a. Give synthesis of Ciprofloxacin	3						
t	b. Give synthesis of Albendazole	3						
C	c. Give general structure of sulfonamides and explain their str	ucture activity 3						
	relationship (SAR)							
C	d. (i) Explain pathological detection of malaria during wind	dow period. 2						
	(ii) Write structure of cephalexin.	1						
€	e. Explain the terms drug absorption, distribution and excretio	n with respect 3						
4	to drug metabolism. f. Explain the following methods to increase potency of a drug	σ						
	(i) Homologation	g. 3						
	(ii) Chain branching.							
		TURN OVER						
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∤.	Ans	swer any four of the	following:					
	a.	What are the types	of leprosy? Giv	ve synthesis of (+) Ethambutal.	3			
	b.	(i) Give synthes	s of 5-Fluorou	ıracil	2			
		(ii) Explain the t	erm immunode	pressants.	1			
	c.	What are carbon pharmaceutical app		Explain their functionalisaion for	r 3			
d. What are symptoms of tuberculosis? Give an account of antibiotics u								
		for the treatment of			3			
	e.	(i) Give synth		mino-5-chlorobenzophenone from	2			
		•		noparticles in the treatment of Parkinson	1			
	f.	Give synthesis of 2	, 4, 5-Triamino	o-6-hydroxypyrimidine from Guanidine	. 3			
5.		swer any four of the	•					
	a. S	State whether follow	•		3			
		•		d as stimulants.				
		-	e is a cardiovas	_				
		•	icylic acid is a	_				
	b. F	ill in the blanks cho	•	-	3			
		1.7	es are used in r	reducing body in case of				
		fever.	, , , , ,					
		(temperature/pain) 2. Bromhexine is used as a agent.						
				_				
5		(Antitussive/Mucolytic) 3. Morphine is a analgesic.						
		•	ic/Non-Narcot					
	c ì	Match the columns.	10/14011-1441001		2			
	C. 1	A		В	3			
		1. Codeine phosph	ate (a)					
		2. Atenolol	(b)	- · · · · · · · · · · · · · · · · · · ·				
		3. Oxymetazoline	(c)					
		•	• /	•				

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d.	Match the following:				3		
		A		В			
	1.La	mivudine	(a)	Imidazole			
	2.Paludrine		(b)	Pyrimidine			
3.Meti		etronidazole	(c)	Biguanide			
			(d)	Benzimidazole			
e.	Fill	Fill in the blanks choosing the correct option.			3		
	1)	1) nano particles possess antimicrobial activity.					
		(silver/iron)					
	2)	Neuretic plaque is formed in disease.					
		(Alzhiemer/cardiovascular)					
	3)) The functional groups essential for the pharmacological activity of					
		drug are					
	(Pharmacons/Pharmacophores)						
f.	Indicate whether the following statements are true or false.						
	1) Amoxicilline is a β-lactum antibiotic.						
	2)	2) Liver is the primary site for drug metabolism.					
	3)	3) Amoebiasis is caused by Plasmodium.					