			Seat No. :				
ND-139 December-2015							
M.Sc., SemIII							
			502 : Chemistry (Organic) (Medicinal Chemistry)				
Tim	e: 3	Hour	[Max. Marks :	70			
Inst	ructio	ons:	(1) All questions carry equal marks.				
			(2) Figures to the right indicate full marks of the questions.				
1.	(a)	Give	e structural variations, mode of action and SAR of Penicillin.	7			
			OR				
		Give	e structural variations and SAR of Tetracyclins.				
	(b)	wer the following:	7				
		(1)	Give a brief account of third generation Cephalosporins.				
		(2)	Define antibiotics. Classify antibiotics on the basis of chemical structure.				
			OR				
		Give	e synthesis and uses of any two :				
		(1)	Chloramphenicol				
		(2)	Ampicillin				
		(3)	Cephalosporin				
2.	(a)	(a) Answer the followings:					
		(1)	What are local and general anesthetics? Give structural variations in local				
			anesthetics.				
		(2)	Give synthesis and uses of Alprazolam.				
			OR				

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Give synthesis and uses of Nikethamide.

What are antipsycoptics? Classify them giving one example of each class.

Answer the followings:

(1)(2)

	(b)	Answer the followings:			
		(1)	What are hypnotics and sedatives ? Classify them.		
		(2)	Give structural variations in barbiturates with synthesis of Amobarbital.		
			OR		
		Ansv	wer the followings:		
		(1)	What are antidepressants? Classify them giving one example of each class.		
		(2)	Discuss mode of action and SAR of Novalgin.		
3.	(a)	Ansv	wer the followings:	7	
		(1)	Discuss structural variations and SAR of 8-aminoquinolines as antimalarials.		
		(2)	Give synthesis and uses of Primaquine. OR		
		Ansv	wer the followings:		
		(1)	Give classification and modern chemotherapy of antimalerials.		
		(2)	Give synthesis and uses of Mepacrine.		
	(b)	Writ	te a note on antimycobacterial agents giving synthesis of INH. OR	7	
		Give	e synthesis and uses of:		
		(1)	Ethanamide		
		(2)	Ethambutol		
		(3)	Dapson		
4.	(a)	Ansv	wer the following:	7	
	` /	(1)	What are diuratics? Classify them according to their therapeutic use with	Ĺ	
		. ,	one example of each class.		
		(2)	Give synthesis and uses Acetazolamide.		
			OR		
		Ansv	wer the following:		
		(1)	Give a brief account of antihypertensive agents.		
		(2)	Give synthesis and uses of Ethacrynic acid.		
	(b)	Ansv	wer the following:	7	
		(1)	Discuss structural variations in sulphonylureas.		
		(2)	Give synthesis and uses of Methyl dopa.		
			OR		
			e synthesis and uses of		
		(1)	Chlorothiazide		
		(2)	Glibenclamide		
		(3)	Atenolol		
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5. Short questions:
Define:
(1) Bacteriostatic and bacteriocidal
(2) in vivo invitro

- (3) Prophylaxis
- (4) Acid fact bacilli
- (5) Gram staining method
- (6) Beta blockers
- (7) Give name and structure of any two general anesthetics
- (8) Role of insulin
- (9) Why combination therapy is used for tuberculosis and leprosy infections?
- (10) Give names of plasmodium parasite.
- (11) Name any two monoamine oxidase inhibitors with their uses.

Give structure and use of:

- (12) Diltiazim
- (13) Artemisinin
- (14) Give name and structure of miscellaneous antibiotic.

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