Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VII(NEW) • EXAMINATION - WINTER 2016** 

Subject Code:2173606 Date:21/11/2016

**Subject Name:Medicinal Chemistry-II & Technology of Sterile Products** 

Time: 10.30 AM to 1.00 PM Total Marks: 70

## **Instructions:**

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	Q.1	(a)		intages and disadvantages	07	
		(b)	(1) What are Eicosonoids? Illustr	ate the biosynthetic pathway for their	05	
			synthesis?		02	
			(ii) Give two examples of Eicosanoid based drug substance with structure			
runction						
	Q.2	(a) (b)	(i) Write short and products and exp	lain in detail formulation composition	07	
		(0)	( ) The state of t	s of Pheromones.	04	
			stereochemistry and activity	mones showing the relationship between	03	
			and activity	OR		
		(b)	Illustrate the synthesis of Dipyrrylme	ethane intermediates of Chlorophyll A	07	
	Q.3	(a)	Classify ophthalmic products with ex			
	2.0	(b)	Draw a neat labeled diagram of the parenteral manufacturing facility.			
		(~)	Draw a neat labeled diagram of the parenteral manufacturing facility.  OR			
	Q.3	(a)	Define pharmaceutical product stabil		07	
		(b)			07 07	
	Q.4	(a)	(i) Describe Pyrethroids? List their u	ses and draw the structures of three	05	
		commercial pyrethroids.  (ii) How do Haemoglobin and Chlorophyll compare with each other? Bring out the major differences.				
		(b)	) Piloflevia is the			
		. ,	reactions catalyzed by these two coenzymes? List four			
			OR			
	Q.4	(a)	F-Part of Minerically. Intustrate at least one synthesis		07	
		(b)	(1)Match the following:		04	
			i)Biotin	Rickets ( )		
			ii)Cobalamin	Blood clotting ( )		
			iii)Ascorbic acid	Night blindness ( )		
			iv)Nicotinic acid	Pellegra ( )		
			v)Colecalciferol	Anaemia ( )		
			vi)Retinol vii)Thiamine	Aneurin ( )		
			viii)Phylloquinone	Dermatitis ( )		
			(ii) Explain the terms "Reductore" on	Scurvy ( )		
	Q.5	(ii) Explain the terms "Reductone" and "Provitamin" each with an example		d Frovitainin each with an example	03	
Q.5 (a) How is Pantothenic acid prepared synthetically? Discuss its deficiences.		synthetically? Discuss its deficiency and	07			
		(b)	Enlist and explain in detail formulation			
			OR		07	
	Q.5	(a)	Write short notes on Vit-K, Vit-E and Vit-D		07	
		(b)	Write a brief note on preformulation of the parenterals			
			******		0 /	