	(A-9) Seat No: No. of Printed Pages: 2		
	SARDAR PATEL UNIVERSITY B.Sc. EXAMINATION SEMESTER - V (NC) Organic Chemistry (US05CCHE02) 10th May 2016 10/05/2 Time: 10:30 a.m. to 1:30 p.m.	016 cimum Marks:	: 70
	Organic enemosity		
Q-1	Choose the correct option for each of the following.		[10]
1. 2. 3. 4. 5. 6. 7. 8. 9.	The general formula of peracid is		
Q-2	Attempt any ten.		[20]
1.	Explain: Birch reduction of toluene gives 2,5-dihydrotoluene.		
2.	How will you prepare witting reagent?		
3.	How will you prepare per acid? Give example of peracid.		
4.	Define Drugs. What are the requirements of an ideal drug?		
5.	Draw the structure of Rifampin with its functions.		
6.	Discuss the mode of action of antipyretic drugs.		
7.	What are the chemical properties of terpenoids?		
8.	List the methods for isolation and separation of terpenoids from the plants.		
9.	Write the synthesis of terebic acid from ethylacetoacetate.		
10.	Explain the terms hormones.		
11.	Differentiate between hormones and vitamins.		
12.	Define α , β – unsaturated carbonyls compounds and give its two examples.		
		(P.T.O)	

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	Attempt the following.			
(a)	Discuss Crigee – Kasper mechanism of Baeyer – Villager Oxidation reaction.	[05]		
(b)	Write mechanism of Mannich Reaction.	[05]		
OR				
Q-3	Attempt the following.			
(a)	Complete the following reaction and suggest appropriate mechanism for it. Benzyltrimethylammoniumiodide + NaNH ₂ ? ?			
(b)				
Q-4	Attempt the following.			
(a)		[06]		
(b)	(i) Phenobarbitone (ii) PAS Write the synthesis for the following	[04]		
	Drug used in the treatment of urticaria. OR			
0-4	Attempt the following.			
(a)		[06]		
	(i) Chloroquine (ii) Miracil – D			
(b)				
Q-5	Attempt the following.			
(a)	Give the importance of following reagents for the structure elucidation of terpenoids. (i) Sodium hypoiodite (ii) phenylhydrazine. (iii) ozone (iv) H_2/pd .			
(b)	, , _ ,	[05]		
OR				
Q-5	Attempt the following.			
(a)	Out line synthesis for the following.	[05]		
(b)	Citral using 3 – methyl – 1 – butanol via Arens – Van Dorp's synthesis. Discuss Wallach's oxidative degradation of α – terpeniol.			
Q-6	Attempt the following.			
(a)	How will you determine the presence of keto group, position of phenolic (-OH) group and steroid nucleus in oestrone? Also write the Hughes et al synthesis of oestrone.	[10]		
OR				
Q-6	Attempt the following.			
(a)	Discuss electrophilic and nucleophilic addition on α,β – unsaturated carbonyl compounds with mechanism.	[10]		

