Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B.Pharm – SEMESTER-III– EXAMINATION – SUMMER-2016 Subject Code:230003 Date: 15/06/2016 Subject Name: Pharmaceutical chemistry-III Time: 2:30 PM to 5:30 PM Total Marks: 80 Instructions:  1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.				
Q.2	(a) (b) (c)	Alcohols. Give methods of preparation for Alcohol.		
Q.3	(a) (b) (c)	Give methods of preparation for Epoxide. Write a note on Diels Alder reaction. Write a note on Williamson's synthesis of ether.	06 05 05	
Q.4	<ul> <li>(a) Outline Difference between SN1 and SN2 reactions.</li> <li>(b) Write a note on Markonikov's rule.</li> <li>(c) Give structural formula for the following <ol> <li>Salicylic acid</li> <li>Acetylene</li> <li>Thiourea</li> <li>Benzamide</li> <li>Propene</li> </ol> </li> </ul>		06 05 05	
Q.5	(a) (b) (c)	Give methods of preparation for alkane. Write a note on Sigmatropic reactions. Write a note on Peroxide effect.	06 05 05	
Q. 6	<ul> <li>(a) What is an orbital? Give some account on Atomic orbital &amp; Molecular orbital theory.</li> <li>(b) Give the properties &amp; reactions of Nitrinium ions.</li> <li>(c) Write note on free radical.</li> </ul>		al & 06 05 05	
Q.7	(a) (b) (c)	Explain the Intermolecular & Intramolecular forces. Write a note on Ozonolysis. Give methods of preparation for alkynes.	06 05 05	

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