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GUJARAT TECHNOLOGICAL UNIVERSITY

Pharm D – 1st Year • EXAMINATION – SUMMER - 2018

•	ubject Code: 818804 ubject Name: Pharmaceutical Organic Chemistry lime: 10:30 AM TO 1:30 PM Instructions: 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.		
Time Instructure 1. 2.			
Q.1	(a) (b)	Classify Intramolecular Forces and Explain Bond dissociation Energy. Explain Following Terms 1. Heterolysis 2. Homolysis 3. Dipole-Dipole interaction 4. Polarity of bond	06 04
Q.2	(c) (a) (b) (c)	Explain the reactivity and stability of free radical. Discuss the mechanism and stereochemistry of SN1 AND SN2 reaction. Write a note on Carbocations with mechanism. Write a note on: Methods of preparation of cycloalkanes.	04 06 04 04
Q.3	(a) (b) (c)	Explain the influence of activating and deactivating groups on the electrophillic substitution of benzene. Explain oxidation-reduction reaction with examples. Give chemical structure and IUPAC name of following 2,2,4-Trimethylpentane, 1-methoxy-2-propanol,2-Nitrophenol, Vinyl bromide	06 04 04
Q.4	(a) (b)	Give the preparation, test of purity, assay and medicinal use of 1. chlorbutol 2. Sodium lauryl sulphate. Differentiate E1 and E2 reaction.	06
Q.5	(c) (a)	Explain the halohydrin formation. Explain the following: 1.aldol condensation 2.Sandmeyer's reaction	04 06
	(b) (c)	Explain the cycloaddition reaction. Explain the resonance and hyper-conjugation.	04 04
Q. 6	(a) (b) (c)	Comment on the following 1. Meta nitro benzoic acid is more acidic than Para nitro benzoic Acid 2. Pyridine is aromatic 3. All Lowrie-Bronsted acids and bases can be Lewis acids and bases but all Lewis acids and bases cannot be Lowrie-Bronsted acids and bases Write detail note on Nucleophilic substitution bimolecular. Explain Isomerism in organic compound	04 04 04
Q.7	(a) (b) (c)	Explain the Perkin condensation and Kolbe reaction. Write free radical halogenations reaction of alkenes. Write a note on Markownikov's rule in detail.	06 04 04