GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER-3 EXAMINATION - WINTER -2024

Subject Code:BP301TP Date: 19-1 Subject Name: Pharmaceutical Organic Chemistry II			Date: 19-12-2024	
Tim	•	30 AM TO 01.30 PM	Total Marks: 80	
	2. N	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b) (c)	Write notes on acidity and effect of substituents of phen Explain, Haworth synthesis of naphthalene in detail. Explain the general mechanism of electrophilic aromatic		06 05 05
Q.2	(a) (b)	Define the following and give its significance: i) Acid value ii) Iodine value iii) Reichert Meissl (RM) value Write a note on reaction of fatty acid. Write structure and uses of Cresol and Naphthols.		06 05 05
Q.3	(c) (a) (b) (c)	Write and explain Huckel's rule for aromaticity with examples. Write structure and medicinal uses of Phenanthrene, Diphenylmethane and Triphenylmethane. Write the structure of followings: Aniline, Salicylic acid, Benzoic acid, Diphenylamine, P-amino benzoic acid		05 06 05
Q.4	(a) (b)	 Write structure and uses of DDT, Saccharin, and BHC. Justify the below statements. 1. Even though benzene is having three double bonds do not undergo addition reaction 2. Para nitro phenol is less acidic than phenol Write a note on saponification value and Rancidity of Oil. 		06 05
Q.5	(a) (b) (c)	Write reaction, reaction mechanism and limitation of Fridel Craft alkylation. What is Bayer's strain theory? Explain it and also discuss its limitations. Explain Sachse Mohr's theory in detail.		06 05 05
Q. 6	(a) (b) (c)	Write the general method to prepare benzene diazonium salt and explain its synthetic applications. Write three reaction cyclopropane and cyclobutane. Justify the following: 1. Though halides are electron withdrawing group, they are o-p directing group on benzene. 2. Chloroacetic acid is more acidic than acetic acid.		06 05 05
Q.7	(a) (b) (c)	Explain the effect of substituents on acidity of benzoic acid with suitable examples. Write a note on reaction of Phenanthrene. Write a note Hoffman degradation reaction.		06 05 05
