

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-III • EXAMINATION – SUMMER-2021

Subject Code:BP301TP**Date: 26/08/2021****Subject Name: Pharmaceutical Organic Chemistry II****Time: 02:30PM to 05:30PM****Total Marks: 80****Instructions:**

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

Q.1	(a) Write a note on friedel craft acylation.	06
	(b) Write a note on electrophilic aromatic substitution with general mechanism and explain any one reaction in detail.	05
	(c) Write structure and uses of DDT and BHC Saccharin, BHC and Chloramine	05
Q.2	(a) Describe a note on Reimer–Tiemann reaction.	06
	(b) Justify the following <ol style="list-style-type: none"> a) Aromatic amines are less basic than aliphatic amines. b) Phenol is more acidic than alcohol. 	05
	(c) Write structure and use of Phenol and Cresols.	05
Q.3	(a) Write a note Hoffman degradation reaction.	06
	(b) Write a note on diazotization reaction.	05
	(c) Explain a note on Haworth synthesis of naphthalene	05
Q.4	(a) How can you prepare phenol by Dow and Cumene process?	06
	(b) Write a note on reaction of Phenanthrene.	05
	(c) Write structure and uses of diphenyl methane and naphthalene.	05
Q.5	(a) Write a note on preparation and reaction of phenol	06
	(b) Justify the following <ol style="list-style-type: none"> a) Though halides are electron withdrawing group, they are o-p directing group on benzene. b) Benzene gives electrophilic substitution reaction instead of addition reaction. 	05
	(c) Detail note on Huckel Rule	05
Q. 6	(a) Preparation of aromatic amine.	06
	(b) Detail note on Cannizzaro reaction.	05
	(c) Write a note on Iodine value.	05
Q.7	(a) Write a note on reaction of fatty acid.	06
	(b) Write a note on reaction of benzoic acid	05
	(c) Notes on structure and stability of benzene.	05
