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# GUJARAT TECHNOLOGICAL UNIVERSITY <br> B.Ph. - SEMESTER-III • EXAMINATION - WINTER-2020 

Subject Code: BP301TP Date: 18/02/2021
Subject Name: Pharmaceutical Organic Chemistry II Time: 02:30PM TO 04:30PMTotal Marks: 54
Instructions:1. Attempt any THREE questions from Q-1 to Q-6.2. Q. 7 is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.
Q. 1 (a) Write a note on friedel craft alkylation and mention its limitation. ..... 06
(b) Write a note on electrophilic aromatic substitution with general mechanism and ..... 05 explain any one reaction in detail.
(c) Write structure and uses of DDT and BHC ..... 05
Q. 2 (a) Describe a note on Reimer-Tiemann reaction. ..... 06
(b) Justify the following ..... 05a) Phenol is more acidic than alcohol.b) Aromatic amines are less basic than aliphatic amines.
(c) Write structure and use of napthol and resorcinol. ..... 05
Q. 3 (a) Explain a note on Haworth synthesis of naphthalene ..... 06
(b) Write a note on diazotization reaction. ..... 05
(c) Write a note Hoffman degradation reaction. ..... 05
Q. 4 (a) Give detail note on conformation of cycloalkanes ..... 06
(b) Write a note on reaction of anthracene. ..... 05
(c) Write structure and uses of diphenyl methane and phenanthrene . ..... 05
Q. 5 (a) Write a note on preparation of phenol ..... 06
(b) Justify the following ..... 05
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.
(c) Detail note on Huckel Rule ..... 05
Q. 6 (a) Write a note on reaction of benzoic acid ..... 06
(b) Write a note on reaction of fatty acid. ..... 05
(c) Write a note on qualitative test for phenols. ..... 05
Q. 7 (a) Preparation of aromatic amine. ..... 06
OR
(a) Detail note on Cannizzaro reaction. ..... 06
OR
(a) Write a note on Saponification value. ..... 06

