

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-III • EXAMINATION – WINTER -2021

Subject Code:BP301TP**Date:15/02/2022****Subject Name: Pharmaceutical Organic chemistry-II****Time: 10:30 AM to 01:30 PM****Total Marks: 80****Instructions:**

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

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| Q.1 | (a) What is aromaticity? Enlist the electrophilic aromatic substitution reaction. | 06 |
| | (b) Write a short note on Huckel's rule. | 05 |
| | (c) Explain: Sachse Mohr's theory. | 05 |
| Q.2 | (a) Write notes on acidity and effect of substituents of phenol. | 06 |
| | (b) Write a note on reaction of Phenanthrene. | 05 |
| | (c) Detail note on Cannizzaro reaction. | 05 |
| Q.3 | (a) Give the Fridal craft reaction of alkylation and acylation in Benzene. | 06 |
| | (b) Explain Haworth synthesis of Anthracene. | 05 |
| | (c) Write a note on diazotization reaction. | 05 |
| Q.4 | (a) Preparation of aromatic amine and aromatic acids. | 06 |
| | (b) Write a note on Iodine value and saponification value. | 05 |
| | (c) Write a note on reaction of fatty acid. | 05 |
| Q.5 | (a) Give the difference between 1) Animal fat vs Plant fat 2) Fats vs Waxes. | 06 |
| | (b) Explain: Bayer's strain theory and give the limitation of it. | 05 |
| | (c) Write structure and uses of diphenyl methane and naphthalene. | 05 |
| Q. 6 | (a) Write three reaction cyclopropane and cyclobutane. | 06 |
| | (b) Write a structure and uses of following: Saccharin, BHC, DDT, Naphthols, Chloramine. | 05 |
| | (c) Write a note on Hoffmann degradation reaction. | 05 |
| Q.7 | (a) How will you convert phenol in to: Salicylic acid, anisole, benzene, phenyl acetate, Phenelote. | 06 |
| | (b) Explain: effects of substituents on basicity of aromatic amines. | 05 |
| | (c) Notes on structure and stability of benzene. | 05 |
