| Seat No.: | Enrolment No. |
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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm SEMESTER-III• EXAMINATION - SUMMER -2020

| • | | Code: BP301TP Date: 26-10-2020 | |
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| Time Instru 1. 2. | e: 2:3 ections Atte Mal | Name: PHARMACEUTICAL ORGANIC CHEMISTRY-II 30 PM TO 5:30 PM Total Marks: 80 s: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks. | |
| Q.1 | (a) | What is aromaticity? Enlist the electrophilic aromatic substitution reaction with example. | 06 |
| | (b) (c) | Give the Fridal craft reaction of alkylation and acylation in Benzene Write a short note on Huckel's rule. | 05 05 |
| Q.2 | (a) | Give the difference between 1) Animal fat vs Plant fat 2) Fats vs Waxes | 06 |
| | (b) (c) | Write a short note on saponification value and acid value. Write structure and uses of following, a. Resorcinol b. Napthalene c. Diphenyl Methane d. Cresols e. DDT | 05 05 |
| Q.3 | (a) (b) | What are Polynuclear aromatic compound and discuss the reaction of naphthalene. Explain Haworth synthesis of Anthracene. | 06 05 |
| | (c) | Write structure and uses of following, 1) Sccharin 2) BHC 3) Phenanthrene 4) Phenol 5) Naphthols | 05 |
| Q.4 | (a) (b) (c) | Give the three preparation of aromatic amines and aromatic acids. Write a short note on basicity of aromatic Amines. What are synthetic uses of diazonium salts? | 06 05 05 |
| Q.5 | (a) | What are phenol? How they differ from alcohols? Write a note on Reimertiemann reaction. Explain the Payer's strain theory and give the limitation of it. | 06 05 |
| | (b) (c) | Explain the Bayer's strain theory and give the limitation of it. Write a note on Strainless theory and give factor affecting stability of conformation. | 05 |
| Q. 6 | (a) (b) (c) | Classify aromatic acids and give reaction of benzoic acid. Discuss the mechanism of cumene process for phenol synthesis. Write three reaction cyclopropane and cyclobutane. | 06 05 05 |
| Q.7 | (a) | How will you convert phenol in to: 1) Salicylic acid 2) Anisole 3) Benzene 4) Phenyl acetate 5) Phenelote | 06 |
| | (b) (c) | Explain effect of substitutes on acidity of Aromatic acids. Discuss Qualitative test for Phenol. | 05 05 |
