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Pharm-D. I -Year (Instant) Examination, January 2014

Subject: Pharmaceutical Organic Chemistry

Time: 3 Hours Max. Marks: 70

Note: Answer All questions from Section – A and any five questions from Section – B. Section – A $(10 \times 2 = 20 \text{ Marks})$

| 1 2 3 4 5 6 7 8 9 | What are diasteriomers? What is a neucleophile? What is Wittig reaction? Outline any one method of preparation of benzyl benzoate. Explain why carboxylic acids are more acidic than carboxylic phenols. Write the structure and uses of dimercaptol. Explain Free radical substitution with an example. Draw the structures of the following molecules. (i) 1, 2-dibromo-2-methylpropane (ii) 2, 5-dimenthylhexane Compare the relative acidities of acetylene, ammonia. | 2 2 2 2 2 2 2 2 2 2 |
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| | Section – B (50 Marks) | |
| | | |
| | Discuss the Bayer's strain theory and explain how sache-mohr theory accounts for pit falls of Bayer's theory. | 10 |
| 12 | (a) Explain the SN¹ Mechanism with suitable example and give evidence. (b) Describe the role of solvent in SN¹ and SN² reactions. | 5 5 |
| 13 | (a) Define Hukel rule. Write the common properties of aromatic compounds.(b) Explain theory orientation in electrophilic aromatic substitution. | 5 5 |
| | Explain the detailed mechanism of Friedal-crafts alkylation and acylation reaction. Write Markonikov's rule and predict the products of the following reactions: (a) Addition of HCl to 2-methyl-2 butene (b) Addition of HBr to 1-Butuene (c) Addition of HI to 2-Butene | 10 10 |
| 16 | Write the mechanism involved in the following reactions. (a) Michael addition (b) Fries rearrangement | 5+5 |
| | Write the preparation, assay and uses of following compounds. (a) Salicylic acid (b) Benzyl benzoate Write note on: | 5+5 |
| 10 | (a) Kolbe reaction (b) Keto-enol tautomerism (c) Reformatsky reaction | 4 3 3 |
