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BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024 2023 ADMISSIONS REGULAR

SEMESTER II - Home Science COMPLEMENTARY COURSE 1

CH2B01B23 - Basic Organic Chemistry

Time: 3 Hours

Maximum Marks: 60

Part A

I. Answer any Ten questions. Each question carries 1 marks

(10x1=10)

- 1. Memorize two examples of positive electrophiles.
- 2. Memorize any two examples for neutral electrophiles reagents.
- 3. Define 1,2-elimination.
- 4. Recall a catalyst used in Friedel Craft's alkylation reaction.
- 5. Recall any two examples of groups which show +M effect.
- 6. In bimolecular Nucleophilic Substitution, identify the species on which rate of the reaction is dependent on.
- 7. Describe the classification of stereoisomerism.
- 8. Define the term enantiomer.
- 9. Recall the equation for specific rotation.
- 10. Discuss the term homopolymer with an example.
- 11. Reproduce the structure of Terylene.
- 12. Represent different types of copolymers.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Predict and explain the type of structural isomerism present in the following pair of compounds: a)Pentane and 2,2-dimethyl propane b)Ethanol and Methoxymethane.
- 14. Discuss briefly on free radicals and its stability .
- 15. Describe Baker-Nathan effect.
- 16. Identify the compound which is more stable:2-methyl-1-butene or 2-methyl-2-butene. Explain.
- 17. Describe Steric effect.
- 18. Discuss the optical isomerism in tartaric acid.
- 19. Describe briefly about geometrical isomerism in cyclic compounds.
- 20. Differentiate addition polymers and condensation polymers with suitable examples.
- 21. Predict the advantages of synthetic rubber over natural rubber.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

- 22. Explain the different types of structural isomerism. Cite suitable example for each type.
- 23. Discuss Hyperconjugation. Explain its various applications.
- 24. Explain the rules for E and Z system of nomenclature in geometrical isomers with suitable example.
- 25. Discuss about various environmental hazards due to plastics.

