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(Pages : 2)

Name.....

Reg. No.....

FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2023

Chemistry

CHE 5B 07—ORGANIC CHEMISTRY—II

(2019 Admission onwards)

Time: Two Hours

Maximum: 60 Marks

Section A (Short Answers)

Answer questions up to 20 marks. Each question carries 2 marks.

- How will you prepare an azo dye?
- 2. What is Libermann's nitroso reaction?
- 3. How will you convert 2-amino propane to isopropanol?
- 4. What is Williamson's synthesis?
- 5. What product is formed when CH₃MgBr reacts with acetone followed by hydrolysis?
- 6. How will you distinguish between aldehyde and ketone?
- 7. What is Borsche's reagent? What is its use?
- 8. How will you convert acetic acid to acetone?
- 9. What is Rosenmund's reduction?
- 10. Describe how the following conversion is carried out



- 11. Draw the structure of sulphapyridine and sulphadiazine.
- 12. Discuss the tautomerism in nitrocompounds.

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Section B (Short Answers)

Answer questions up to 30 marks. Each question carries 5 marks.

- 13. What is Claisen rearrangement? Explain its mechanism.
- 14. What is Aldol condensation? Explain the mechanism.
- 15. What is haloform reaction? What is its utility?
- 16. How will you prepare β hydroxy carboxylic acids using organozinc compound?
- 17. How will you bring about the following conversions
 Acetic acid → Propanoic acid
 Propanoic acid → Acetic acid
- 18. What is Schotten-Baumann reaction? What is its use?
- 19. How will you distinguish between $1^\circ, 2^\circ,$ and 3° amines ?

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Section C (Essay)

Answer any one question.

The question carries 10 marks.

- 20. Explain the reduction products of nitrobenzene under different conditions.
- 21. a) How will you prepare ethylacetoacetate?
 - b) Write notes on any four synthetic applications of ethylacetoacetate.

 (1×10^{2})

