

D 10584

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Name.....

Reg. No.....

FIFTH SEMESTER U.G. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS—UG)

Chemistry

CHE 5B 07—ORGANIC CHEMISTRY—II

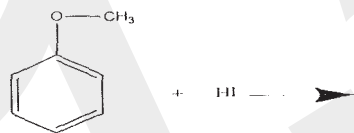
(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answers)*Answer at least **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. Which is more acidic, propanol or isopropanol ? Why ?
2. An alkoxide is a stronger base than hydroxide ion. Justify.
3. How will you convert phenol to salicylaldehyde ?
4. What is PTC ? Give examples.
5. Complete the reaction :



6. Suggest reactions for the conversion of ethyl magnesium chloride to 1-propanol.
7. What products are formed when CH_3MgI is treated with ethanol?
8. What is urotropine ? How it is prepared ?
9. What is Etard's reaction ?
10. Which is more acidic, acetic acid or chloroacetic acid ? Why ?
11. What is Hofmann's Bromamide degradation ? Explain with examples.
12. Pyridine undergoes nucleophilic substitution reaction easily. Why ?

(8 × 3 = 24 marks)

Turn over

Section B (Short Answers)

Answer at least **five** questions.

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

13. How will you prepare phenolphthalein ? Explain its colour change with pH.
14. Explain oximercuriation-demercuration reaction for the preparation of alcohols.
15. What is Claisen rearrangement ? Explain its mechanism.
16. What is Tollen's reagent ? How it is used to test the presence of aldehydes ?
17. How will you convert acetic acid to acetaldehyde and acetic acid to acetone ?
18. What is Hofmann's elimination ? Explain with suitable examples.
19. Write notes on Fischer Indole synthesis.

(5 × 5 = 25 marks)

Section C (Essays)

Answer any **one** question.

The question carries 11 marks.

20. How will you separate a mixture of 1°, 2°, and 3° amines ?
21. Write notes on : Kolbe's electrolysis ; HVZ reaction ; Reformatsky reaction ; and Chichibabin reaction.

(1 × 11 = 11 marks)