NORTH GAUHATI COLLEGE

SESSIONAL EXAMINATION-2025

FYUGP SEMESTER-IV

SUB: CHEMISTRY Major/ Minor

Paper name: Organic Chemistry-1 Paper code: CHE0400204

TOTAL MARKS: 30 TIME: 1½ Hr

The figures in the margin indicate full marks for the questions.

- How will you prepare acetic acid starting from a Grignard reagent? Give the mechanism of Dickmann Condensation.
- 2. Arrange the following in decreasing order

1x2 = 2

- a) HCOOH, CH₃COOH, H₂O, CH₃OH
- b) CH₃NH₂, (CH₃)₂NH, C₆H₅NH₂, C₆H₄NH₂NO₂
- 3. How can you distinguish 1°, 2° and 3° amine with the help of Hinsberg reagent? 3
- 4. Give the preparation of the following (any three)

2x3 = 6

- a) Nitro compound,
- b) 2° amine,
- c) Glycine d) Isonitrile
- 5. Give the IUPAC name of the following

1x4=4









6. How can you prepare pyrrole from acetylene? Give the iodination reaction of pyrrole.

2+2=4

7. Discuss the acidic and basic character of pyrrole. Compare the basic character of pyridine with pyrrole and tertiary aliphatic amine. 3+3=6
