GOVERNMENT GENERAL DEGREE COLLEGE, CHAPRA

U.G. INTERNAL ASSESSMENT (2021-22)

SEMESTER-I

SUBJECT- CHEMISTRY (CHEMGT-1)

FULL MARKS – 15 Time: 1 Hour

A. Answer any seven questions from the following: [7x2=14]

- 1. Why ionisation energy of Fe²⁺ is lower than that of Fe³⁺? 2
- 2. Arrange the following in order of increasing acid strength, give reason. 2

HClO₄, HClO₃, HClO₂

- 3. Explain why 2d orbital is not possible? 2
- 4. Write the electronic configuration of Cu & Mn²⁺. 2
- 5. What do you mean by standard electrode potential and formal potential? 2
- 6. Compare the stability order of the following cations. Give reason. 2

CH₃CH₂⁺, (CH₃)₂CH⁺, (CH₃)₃C⁺

- 7. Write differences between E1 and E2 reaction. 2
- 8. What are the conditions for a molecule to be optically active? Give example. 2
- 9. Give example of each 2
- i. Saytzeff elimination
- ii. Hofmann elimination
- 10. How will you prepare acetic acid from methanol? 2

B. Answer any one question from the following: [1x1=1]

- 1. Which reagent is used for the conversion of alkyne to cis-alkene? 1
- 2. How do you distinguish between but-2-yne and but-1-yne by a chemical test? Write the reaction. 1