

GOVERNMENT GENERAL DEGREE COLLEGE, CHAPRA

U.G. INTERNAL ASSESSMENT (2019-20)

B.Sc. CHEMISTRY

SEMESTER-I, CHEMGT-1

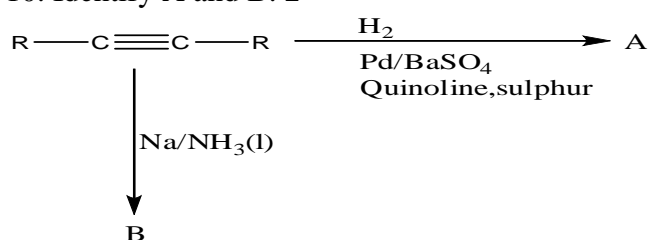
FULL MARKS – 15

Time: 1 Hour

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

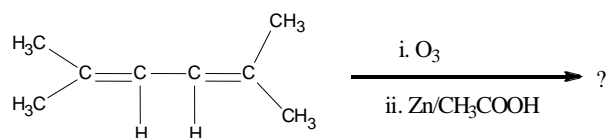
1. Explain why 1P orbital is not possible? 2
2. Write the electronic configuration of Cr & V⁺. 2
3. Why first ionisation energy of Al is lower than that of Mg? 2
4. Arrange the following in order of increasing acid strength, give reason. 2
HF, HCl, HBr, HI
5. What do you mean by standard electrode potential and formal potential? 2
6. Compare the stability order of the following cations. Give reason. 2
CH₃CH₂⁺, (CH₃)₂CH⁺, C₆H₅CH₂⁺
7. Write differences between S_N¹ and S_N² 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. Identify A and B. 2



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

1.



1

2. How do you distinguish between but-2-yne and but-1-yne by a chemical test? Write the reaction. 1