

GURUDAS COLLEGE

B.Sc. Part-I (1+1+1System) INTERNAL EXAMINATION,2020

CHEMISTRY(GENERAL)

Paper-I

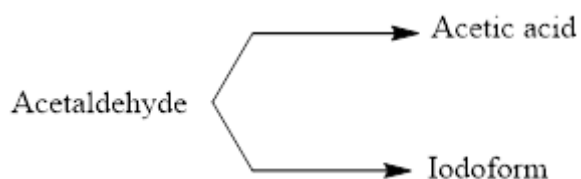
Time:1Hr 30Min.

F.M.-50

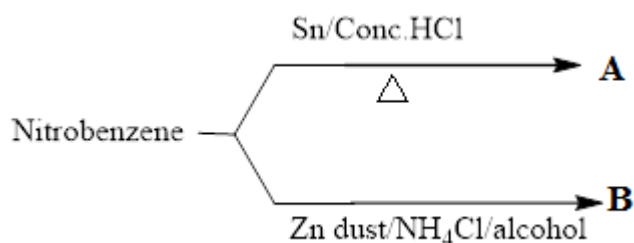
ANSWER ANY TEN FROM THE FOLLOWING QUESTIONS.

Each question carry five marks.

1. Write a note on Markownikoff's rule and peroxide effect with example.
2. What are enantiomers and diastereomers? Explain with suitable examples.
3. How can the following conversion be carried out?



4. Write notes on Aldol condensation reaction.
5. What is Grignard reagent? How the following compounds can be prepared with the help of Grignard reagent?
 - (i) Acetic acid
 - (ii) Acetaldehyde
6. Write down the following products.



7. Write a short note on Osazone reaction.
8. Describe Gabriel-Phthalimide synthesis of glycine.
9. State Aufbau principle and its limitations.

10. Write a brief note on Fajan and Soddy's 'group displacement law'.
11. Give an account on the variation of ionization potential of s and p- block elements along the period and down the group.
12. Write the expression for lattice energy and the meaning of the terms therein.
13. Write the shape and structure of the following molecules: i. H_2O ii. NH_3 according to VSEPR theory.
14. What are chelate complexes? Give suitable example.
15. Write formulae of two chlorofluorocarbons and uses of them.
16. Write the name and formulae of the oxoacids of sulphur and compare their acidic strength.