

B.Sc. Chemistry Hons. Practical Examination-2021

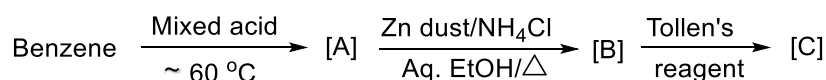
Gurudas College Centre

SEM-IV

Paper: CC-8P

Full Marks-30

1. What is Brady's reagent? Give the structure of the product formed when it reacts with benzophenone. 3
2. Write down the chemical formula of sodium nitroprusside. Sodium nitroprusside solution is added to the sodium fusion extract of an organic compound containing Sulphur. Write down the observation and reactions involved. 5
3. Identify [A], [B] and [C] in the following reactions. 3



4. Identify which of the following compounds will give a white precipitate with aqueous AgNO_3 solution. Give reasons. 3
(i) *p*-Chloroaniline, (ii) aniline hydrochloride, (iii) 2,4-dichloroaniline.
5. Write down the reaction of FeCl_3 test of phenolic $-\text{OH}$ group containing organic compound. 3
6. Aliphatic primary amines cannot be detected by azo dye test. Explain with reactions. 3
7. Write down the formula of Prussian blue produced during the detection of nitrogen by Lassaigne's test. Give reactions. 5
8. An organic compound contains $-\text{CONH}_2$ group, which type of derivative you can prepare from it, write down the procedure of the formation of the derivative. 5