

B.Sc. Chemistry Hons. Practical Examination-2021

Gurudas College Centre

SEM-II

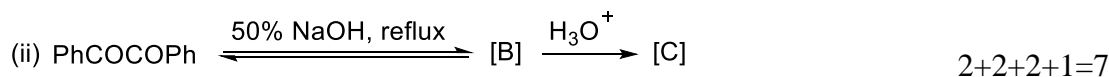
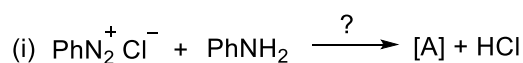
Paper: CC-3P

Full Marks-30

1. Write down the names and structures of the products of the following reactions. (Any five) 3×5=15

- (i) Reaction of acetanilide with KBr and KBrO₃ in acetic acid.
- (ii) Reaction of phthalic anhydride with urea in glacial acetic acid.
- (iii) Acetone is refluxed with benzaldehyde in presence of dil. alkali.
- (iv) Urea is heated strongly in a dry test tube.
- (v) Aniline is heated with glacial acetic acid.
- (vi) Nitration of 4-nitrotoluene with fuming HNO₃ and conc. H₂SO₄ at 50 °C temp.

2. Identify [A], [B] and [C] along with missing reagent.



3. What happens when *p*-anisidine is treated with benzyl chloride dissolved in acetone in saturated brine solution, write down the reaction involved. 4
4. What happens when benzamide is heated with NaOH and then acidified with conc. HCl. It is also advised that the acidification is carried out under cold condition, why? 4