

**CHEMISTRY HONOURS PRACTICAL 2021**

**GURUDAS COLLEGE CENTRE**

**PAPER VIIIA (CHP-34b)**

**Full Marks-50**

**(Under 1+1+1 system)**

1. Make a systematic qualitative analysis of the given organic solid compound marked “O” (Salicylic acid) with special reference to the following points –
  - (a) Solubility and solubility classification
  - (b) Detection of special elements by Lassaigne’s test
  - (c) Detection of functional groups –
    - (i) Nitrogenous and (ii) non-nitrogenous

30
2. Lab quiz (4 Questions) 5×4=20

**B.Sc Part-III Chemistry Honours Practical Examination-2021**  
**Gurudas College Centre**  
**Paper VIIIA**  
**Lab Quiz**

*Answer any four questions*

Q. 1. 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.

Q. 2. What happens when benzyl chloride is refluxed with alkaline  $\text{KMnO}_4$  followed by acidification? Write down the structure of the final product.

Q. 3. What is Brady's reagent? Give the structure of the product formed when it reacts with benzophenone.

Q. 4. Identify which of the following compounds will give a white ppt with aqueous  $\text{AgNO}_3$  solution. Give reason – (i) *p*-Chloroaniline (ii) Aniline hydrochloride and (iii) 2,4-dichloroaniline.

Q. 5. Predict the structure and also write the name of the product 'A'. Give the mechanism for its formation.

