

**GURUDAS COLLEGE**

**CHEMISTRY — GENERAL — PRACTICAL**

**2021**

**Subject-CEMG, SEM-III**

**Paper- CC/GE 3-P**

**Time: 2 Hrs**

**Full Marks: 30**

*The figures in the margin indicate full marks.*

*Answer **any five** questions from Q1 - Q6*

1. a) Why is conc. HCl used in the flame test? 3 + 2  
b) What is Soda lime?
2. a) Write the formula of Ni-dimethyl glyoxime. What type of complex is it? 3 + 2  
b) What is the composition of Borax Bead?
3. a) What is Nessler's Reagent? Write the formula of the compound it forms with NH<sub>3</sub>.  
b) What is Prussian blue? 3 + 2
4. a) What are interfering radicals? 3 + 2  
b) Why Na<sub>2</sub>CO<sub>3</sub> extract used for detection of acid radicals?
5. a) AgCl is insoluble in HNO<sub>3</sub>, but soluble in NH<sub>4</sub>OH – why? 3 + 2  
b) Write down the confirmatory test for Chromium (III) (Cr<sup>3+</sup>).
6. a) What is brown ring test? Which radical is detected by brown ring test? 3 + 2  
b) How will you detect free boric acid & borate (BO<sub>3</sub><sup>3-</sup>) in a given sample?
7. Laboratory Note Book. 5