2020
B.A. /B.Sc. Semester 3 Examination
University of Calcutta
CHEMISTRY – GENERAL
PRACTICAL
Paper : CC/GE3
F.M. 30

FAKIR CHAND COLLEGE CENTRE(551)

Answer any FIVE:

1. You are supplied sodium phosphate as an inorganic salt during a qualitative inorganic analysis experiment.
   a) Write down the name and formula of the acid and basic radicals of the supplied salt sample. ½ x 4
   b) Write the tests by which you can confirm both the acid and basic radicals. $1^1/_2$+1
   c) Write the reaction of phosphate detection test. $1^1/_2$

2. Write down the formula of sodium bismuthate. Which basic radical is detected by using this compound during analysis of an inorganic salt? Describe the test. Write the reaction involved. 1+1+2+2

3. Write the formula of boric acid and sodium borate. Give the formula of the acid radical in sodium borate. Describe the tests by which boric acid and borate can be separately identified (writing reaction not necessary). (1+1)+1+3

4. During Oxidising Fusion Test of an inorganic salt if you find a green melt, which is dissolved in boiling water, then what inference can you draw from this observation? Describe the test. Give the reaction involved. 1+2+3

5. Write down the name and formula of the reagent which can detect sulphide ion. Give the test. Write down the reaction involved. (1+1)+2+2

6. Write down the formulae of sodium nitrite and sodium nitrate. Describe the tests by which nitrite and nitrate ions can be separately identified (writing reaction not necessary). (1+1)+4

7. What is Nessler's reagent? Which basic radical can be detected by using it? Write down the test. Give the reaction involved. 1+1+2+2