B.A. / B.Sc. PART I EXAMINATION, 2020
FAKIR CHAND COLLEGE CENTRE (551)

INSTRUCTIONS FOR CANDIDATES

READ ALL THE INSTRUCTIONS CAREFULLY BEFORE WRITING ANSWERS

1. Total **TIME OF EXAMINATION: 2 HOURS**
2. **Candidates Have To Prepare A Single pdf File By Scanning Clearly And Serially (According To Page Numbers).**
3. **ATTACH THE UNIVERSITY REGISTRATION CERTIFICATE** As The Last Page Of The pdf File
4. Use Only **WHITE PLAIN A4 PAPERS** For Writing Answers
5. Use **ONLY BLACK INK** For Writing Your Answers
6. Give **A TOP PAGE** With Clear Mention Of University **REGISTRATION NO.**
7. **GIVE PAGE NO.** At The Top Right/Middle Of Each Page
8. Give **AT LEAST 1CM MARGINS** In All The Four Sides Of Each Page

2020
B.A. /B.Sc. Part I Examination
University of Calcutta
CHEMISTRY – HONOURS
Paper : IIB
F.M. 50

FAKIR CHAND COLLEGE CENTRE(551)

Answer ANY TEN questions. 5x10

1. Write short notes on Borax bead test.
2. Write the confirmatory test for the detection of phosphate ion and the reactions involved therein.
3. Write the confirmatory test for the detection of borate ion and the reactions involved therein.
4. Write the confirmatory test for the detection of sulphate ion and the reactions involved therein.
5. Write the principle of oxidative fusion test for detection of Cr(III) ion.
6. Write the confirmatory test for the detection of Cobalt(II) ion in Group III B.
7. State the flame colour observed when the paste of conc. HCl with the following basic radicals are introduced in the Bunsen burner flame:
   i) Sodium ion
   ii) Potassium ion
   iii) Barium ion
8. Write the confirmatory test for the detection of Copper (II) ion and write the reactions involved therein.
9. How can you differentiate between a nitrate and a nitrite ion by qualitative analysis?
10. Name the group reagents involved in the qualitative analysis of Group IIIA radicals. Write the confirmatory test for the detection of Fe(III) ion.
11. Write the principle of oxidative fusion test for detection of Mn(II) ion.
12. Write the confirmatory test for the detection of Nickel (II) ion and write the reactions involved therein.