B.A. / B.Sc. PART II 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 II Examination

University of Calcutta

CHEMISTRY – HONOURS

Paper : IVA

F.M. 25

FAKIR CHAND COLLEGE CENTRE(551)

Answer ANY TWO questions.

1. (a) Compare the hydrolytic behaviour of the fluorides of S, Se and Te and give suitable explanation. $7^1/_2$
   (b) $(CH_3)_3SiOH$ is a stronger acid than its carbon analogue. Justify. 5

2. (a) Construct the MO diagram of CO and explain its donor property. $7^1/_2$
   (b) Explain n-type and p-type semiconductors with proper examples. 5

3. (a) Discuss the structure and bonding of polyphosphazenes. $7^1/_2$
   (b) Suggest a method of preparation of XeO_2F_2 and draw its structure. 5

4. (a) Explain on the basis of the solubility product principle and common ion effect the precipitation of Group- II A and Group- III B sulphides in qualitative analysis. $7^1/_2$
   (b) Compare the oxidizing power of $K_2Cr_2O_7$ in acidic and neutral medium. 5