2/EH-23 (ii) (PR-INS) (Syllabus-2019)

(2)

2021

(July)

CHEMISTRY

(Elective/Honours)

(Physical LC—I)

(Chem-EH-201)

(Practical)

Marks : 19

Time: 6 hours

Instructions to Examiners

- **1.** Any *one* of the following experiments may be allotted to each candidate on the basis of lottery:
 - (a) Determination of the heat of neutralization of a strong acid by a strong base
 - (b) Determination of the molecular weight by Rast's method

(c)	Study of the heat of dilution of H ₂ SO ₄
	and then to determine the strength of
	an unknown acid

- (d) Determination of the velocity constant of the decomposition of hydrogen peroxide in presence of ferric chloride as catalyst by titrating against KMnO₄
- (e) Determination of the solubility of BaCl₂ /NaCl at two different temperatures and to determine the heat of solution
- (f) Determination of the velocity constant of the hydrolysis of methyl acetate catalyzed by an acid

Distribution of Marks:

(i)	Correct theory and formula(e)	3
(ii)	Correct procedure	1½
(iii)	Completion of the experiment	1½
(iv)	Systematic recordings, tabulations, graphs (if any) and calculations	5
(v)	Results	1

20D**/1360** (Turn Over)

20D/1360

(Continued)

(3)

2. Viva voce :

Question related to the given experiment should be asked.

5

3. Laboratory record : 2

Regularity in attendance, systematic recording and submission of laboratory records should be emphasized.
