Scheme of Evaluation (With effect from 2018-19 CBCS Scheme)

Course: Engineering Chemistry Lab Code: 18CHEL16/26

Descriptions	Maximum: 100 Marks	Part A: 50 marks	Part B: 50 marks	
Procedure write-up	15	08	07	
Conduction	52	26	26	
Calculation, Graph works & Result	18	09	09	
Viva-voce	15	07	08	

Part-A: INSTRUMENTAL					Part-B: VOLUMETRY		
Potentiom Colorimet and Flame Photometr	ry	etry, pKa y		Total Hardness, CaO in a Cu in Brass, COD, Fe in haematite an Chlorine in bleaching po	and		
Error (cc)	Marks	Error (%)	Marks	Error (cc)	Marks	Error (cc)	Marks
<u>+</u> 0.50	26	<u>+</u> 5.0	26	<u>+</u> 0.50	13+13	<u>+</u> 0.2	13+13
<u>+</u> 0.51-0.60	22	<u>+</u> 5.1-6.0	22	<u>+</u> 0.51-0.60	11+11	<u>+</u> 0.3	11+11
<u>+</u> 0.61-0.70	18	<u>+</u> 6.1-7.0	18	<u>+</u> 0.61-0.70	9+9	± 0.4	9+9
<u>+</u> 0.71-0.80	14	<u>+</u> 7.1-8.0	14	<u>+</u> 0.71-0.80	7+7	<u>+</u> 0.5	7+7
<u>+</u> 0.81-1.0	10	<u>+</u> 8.1-10.0	10	<u>+</u> 0.81-1.0	5+5	<u>+</u> 0.6	5+5
> <u>+</u> 1.0	Zero	> <u>+</u> 10	Zero	> <u>+</u> 1.0	Zero	>± 0.6	Zero
Graph: 5 marks Calculation: 4 marks		pKa: Two graphs 5 + 4 marks & Viscosity: Calculation : 9 marks		Graph: 5 Calculation			

Instructions to the Examiners:

- 1. A different experiment should be set under Part-B for each batch in a day.
- 2. Under no circumstances, same experiment shall be set for more than three candidates in a batch under Part-A.
- 3. Allotment of Part-A experiments to the students shall be strictly by the lot system.
- 4. A change of experiment can be permitted for only one time under Part-A, strictly by lot system subject to the condition of deduction of 15 (**fifteen**) marks under Part-A only.
- 5. Supplement (with question paper slip) and main answer sheet should be issued to the students in the beginning.
- 6. In the first ten minutes, students should write the outline of the procedure of the experiments to be performed of both Part-A and Part-B in Main answer sheet only and hand over the same back to the examiner.
- 7. Procedure of the experiment/s should not be provided to the students during examination under any circumstances.
- 8. Students shall be permitted to perform maximum three titrations under Part-B.
- 9. Overwritten values should not be considered for valuation.
- 10. Examiner should observe and put initial for the readings of the experiments.
- 11. Weight of the substance under Part-B should be different for all the students and weight of the substance should be given to the students only after confirming the initials for all the three titre values.
- 12. Blank tire value for the COD experiment under Part-B should be given to the students by examiner.