Unit IV

- 8. (a) Describe three important electrodes used in chemical laboratories.5
 - (b) Explain the calibration and maintenance of pH meters. 5
- 9. Describe the calibration and maintenance of: 5,5
 - (i) Spectrophotometer
 - (ii) Refractometer.



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34141

B.Sc. (Hons.) (NEP-2020) (UTD) EXAMINATION, 2025

(Second Semester)

CHEMISTRY SKILLS-I

B-23-CHE-205

Time: 3 Hours] [Maximum Marks: 50

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1.	(a)	What is % w/w ?	2			Unit II
	(b)	What do you mean by standardization solutions?	of 2	4.	(a)	Explain the determination of percentage
	(c)	What is Calibration ?	2			purity using an example. 5
	(d)	What is glass electrode?	2		(b)	Differentiate between primary and
	(e)	How does crystallization pur	rify			secondary standards. 5
		chemicals ?	2	~	()	
		Unit I		5.	(a)	What are Indicators ? Explain the preparation of two types of indicator
2.	(a)	Describe the general rules of chemi	ical			solutions. 6
		labelling.	3		(b)	Explain different types of buffer
	(b)	Write a note on the handling	of			solutions. 4
		glassware.	3			
	(c)	Explain the basic rules of sodium me	etal			Unit III
		disposal.	4	6.	(a)	Describe the preparation of
3.	Desc	cribe the following terms:	10			complexometric solutions. 5
	(i)	Specific gravity		ı	(b)	What is chemical waste? Explain its
	(ii)	Equivalent mass			, ,	proper management. 5
	(iii)	Molarity				
	(iv)	Molality		7.	Desc	ribe the main methods of purification of
	(v)	Normality.			chem	nicals. 10
Z -3	4141	2		(3M25-25	5/13) Z -3	34141 3 P.T.O.