Titration - II: Estimation of Dissolved Oxygen

	Volume of water sample (mL)	Burette reading (mL)		Volume of sodium thiosulphate
S. No.		Initial	Final	(mL)
1.	100 mL	OmL	9.8 mL	9.8 mL
2.	100 mL	OmL	9.8mL	9.8 mL
3.				
	9.8 mL			

Calculation:

Volume of sodium thiosulphate $V_2 = ... \%$. mL (From Titration – 2)

Strength of sodium thiosulphate $N_2 = ... N$ (From Titration – 1 calculation)

Volume of water sample taken V_1 = 100 mL

Strength of given water sample $N_1 = ?$

$$V_1N_1 = V_2N_2$$

 $N_1 = V_2 \times N_2/100$
 $= ...9.8 \times 10^{-4} N$

Amount of dissolved oxygen (ppm) = normality \times equivalent weight of $O_2 \times 1000$ mg/L of the given water sample.

 $= ... \frac{9.8 \times 10}{1000} \times 8 \times 1000 \text{ mg/L}$ $= ... \frac{7.84}{1000} \times 8 \times 1000 \text{ mg/L}$

Result: Amount of dissolved oxygen in the given water sample = 7.84 ppm.

Evaluation of Result:

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Sample number	Experimental	Actual Value	Percentage of	Marks
Sumpre 2	value		error	awarded
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				H 6/119/1
				W W
				100
				(a) (