

T R U S T

# Somaiya Vidyavihar University. K. J. Somaiya College of Engineering, Vidyavihar, Mumbai 400077.

## Department of Science and Humanities Applied Chemistry Laboratory

## Subject: Engineering Chemistry

#### Observation

Weight of sample before drying = 
$$\frac{18 \cdot 3323 - 17 \cdot 5465}{\text{gm} (W_2 - W_1)}$$

$$= \underline{0.7858} \text{ gm (W3)}$$

Weight of the sample (after heating) = 
$$\frac{18 \cdot 105^{\circ} - 17 \cdot 5465}{\text{gm (W4-W1)}}$$

$$= \underline{o \cdot 5585} \text{ gm (W5)}$$

Loss in weight of sample = 
$$\frac{0.5585 - 0.7858}{\text{gm (W5-W3)}}$$





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Weight of sample taken = 
$$0.7850$$
 gm (W3)

Loss in weight 
$$= 0.2273$$
 gm (W6)

$$= \frac{\text{W6} \text{ x } 100\text{- }\%\text{Moisture}}{\text{W3}}$$

Result

: Percentage of volatile matter in given charcoal powder