



**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 empty crucible= \_\_\_\_\_ gm ( $W_1$ )

Weight of crucible + Sample (Before heating) = \_\_\_\_\_ gm ( $W_2$ )

Weight of sample before drying = \_\_\_\_\_ gm ( $W_2 - W_1$ )

= \_\_\_\_\_ gm ( $W_3$ )

Weight of crucible + sample (after heating) = \_\_\_\_\_ gm ( $W_4$ )

Weight of the sample (after heating) = \_\_\_\_\_ gm ( $W_4 - W_1$ )

= \_\_\_\_\_ gm ( $W_5$ )

Loss in weight of sample = \_\_\_\_\_ gm ( $W_5 - W_3$ )

= \_\_\_\_\_ gm ( $W_6$ )





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**Calculation:**

Weight of sample taken = \_\_\_\_\_ gm (W3)

Loss in weight = \_\_\_\_\_ gm (W6)

$$\% \text{ Volatile matter} = \frac{\text{Loss in weight}}{\text{Wt of sample taken}} \times 100$$

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

$$= \text{_____} \%$$

**Result**

: Percentage of volatile matter in given charcoal powder

= \_\_\_\_\_