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= 22.4017 gm (W1)

Weight of crucible + Sample (Before heating) = 23.2261 gm (W2)

Weight of sample before drying = 23.2261 - 22.4017 gm($W_2 - W_1$)

= 0.8244 gm (W3)

Weight of crucible + sample (after heating) = 23.0740 gm (W4)

Weight of the sample (after heating) = 23.0740 - 22.4017 gm (W4- W1)

= 0.6723 gm (W5)

Loss in weight of sample = 0.6723 - 0.8244 gm (W5- W3)

= 0.1521 gm (W6)

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

Department of Science and Humanities
Applied Chemistry Laboratory

Subject: Engineering Chemistry

Calculations

Weight of sample = 0·8244 gm (W3)

Loss in weight = 0·1521 gm (W6)

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

$$= \frac{W6}{W3} \times 100$$

= 18·4497 %

Result : Percentage of moisture in given charcoal powder

= 18·4497 %.