

EXPERIMENTAL DATA

Table for Measurement of Depth of the Given Beam (d)

$$\text{Least Count of Screw Gauge} = \frac{\text{pitch}}{\text{Total no of divisions in the circular scale}}$$

$$= \text{_____ cm}$$

$$= \text{_____ cm}$$

No. of	Linear Scale Reading (cm)	Circular Scale Divisions (n)	Least Count	Value of Circular Scale Divisions (cm)	Total Readings (cm)	Mean Depth, d (cm)	Instrumental Error (cm)	Corrected Depth, d (cm)
1.								
2.								
3.								

Table for Measurement of Breadth of the Given Bar (b)

$$\text{Vernier Constant of the Slide Calipers} = \frac{\text{Value of one division of main scale in cm}}{\text{Total no of divisions in the vernier scale}}$$

$$= \text{_____ cm}$$

$$= \text{_____ cm}$$

No of Readings	Linear Scale Reading (x) (cm)	Vernier Scale Divisions (n)	Vernier Constant (vc)	Value of Vernier Scale Divisions [$y=n \times vc$] (cm)	Total Readings [$x+y$] (cm)	Mean Breadth, b (cm)	Instrumental Error (cm)	Corrected Breadth, b (cm)
1.								
2.								
3.								

Measurement of Length of the Given Beam (l)

l = (1) _____ cm (2) _____ cm

(3) _____ cm (4) _____ cm

Mean l = _____ cm

Table for Measurement of Load versus Depression Graph

Least Count of Spherometer

$$= \frac{\text{Pitch}}{\text{No of division in the circular scale}}$$

= _____ cm

= _____ cm

Table- Data for depression of the bar.

No of Observations	Loads, m (gm)	Readings for						Mean Reading in cm	Mean Depression y_0 in cm
		Load Increasing			Load Decreasing				
		Main Scale cm	Vernier Scale div	Total in cm	Main Scale cm	Vernier Scale div	Total in cm		
1.									
2.									
3.									
4.									
5.									
6.									