

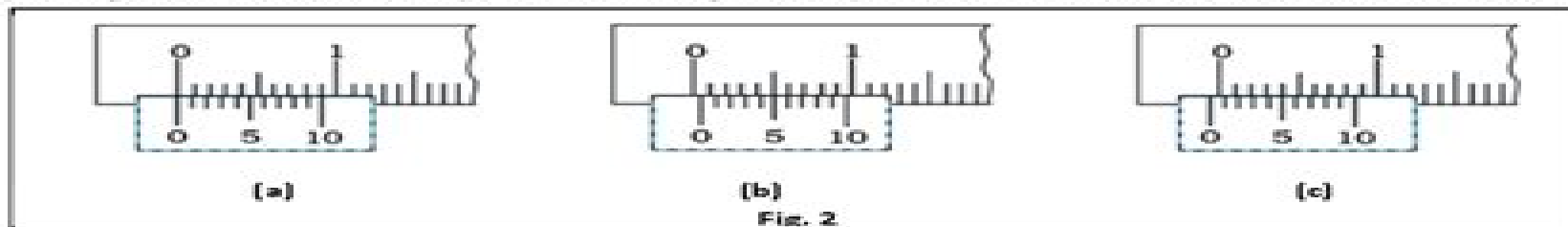
Pre-Lab 1: “Vernier Callipers”

- Aims:**
- (i) To understand the use of the Vernier Calipers.
 - (ii) To measure the diameter of a small spherical/ cylindrical body.
 - (iii) To measure the dimensions (length, width and height) of the given rectangular block.
 - (iv) To measure the internal diameter and depth of a given beaker/ calorimeter and hence find its volume.

Theory: Vernier Calipers is a device to measure lengths accurate upto $1/10^{th}$ or $1/20^{th}$ of a millimetre. It consists of rectangular steel bar having graduations in inches on one edge and in centimetres on the other edge as shown in the Fig. 1. This constitutes the main scale or linear scale. Over this scale slides an auxiliary scale also called as the vernier scale.



It has two outer measuring jaws A and B. The jaw A is fixed at the end of the rectangular bar towards zero side while the other jaw B is capable of sliding along the edge of the main scale. The inner measuring jaws P and Q are projected in the upper part of the device where P is fixed and Q is movable. The two vernier scales are attached to the movable jaw as shown. The retainer is used to slide the vernier scale on the main scale and also helps to retain the body (externally or internally) across either pair of jaws of the Vernier calipers. When two jaws are put in contact with each other, the zero of the



vernier scale should coincide with the zero of the main scale [Fig. 2(a)]. If it is not so, then the device is

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J Spring

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar's end.

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Whispering the Techniques of Language: An Emotional Journey through **Vernier Calliper Experiment Class 11 Manual**

In a digitally-driven earth wherever monitors reign supreme and immediate transmission drowns out the subtleties of language, the profound secrets and emotional nuances hidden within words usually get unheard. Yet, located within the pages of **Vernier Calliper Experiment Class 11 Manual** a interesting literary treasure blinking with raw emotions, lies a fantastic quest waiting to be undertaken. Written by a talented wordsmith, this marvelous opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the very cloth of each and every word. Within the psychological depths of the emotional review, we shall embark upon a heartfelt exploration of the book is core themes, dissect its captivating publishing model, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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