

RAM



(RECALL ALL MEMORY)

10

2023
THEORY

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය , 2023 අගෝස්තු
கல்விப் பொதுத் தராதரப் பத்திர(உயர் தர)ப் பரீட்சை, 2023 ஓகஸ்ட்
General Certificate of Education (Adv. Level) Examination, August 2023

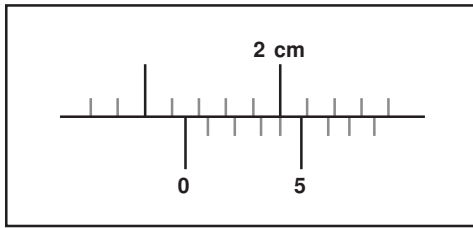
භෞතික විද්‍යාව I
பௌதிகவியல் I
Physics I

Advanced Level Physics
Amith Pussella

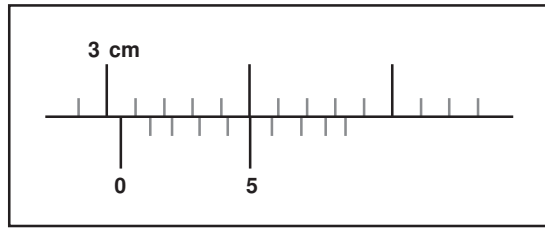
PHT5888 2023Th 2020-03-03

Multiple Choice Questions

1.



Before taking a measurement



After taking a measurement

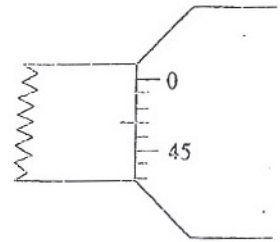
If positions of scales , before and after taking a measurement by a Vernier Caliper having 9 units of 1mm in main scale coinciding with 10 Vernier scale units are as shown in the figure, that measurement would be equal to,

- (1) 14.1 cm (2) 14.3 cm (3) 1.42 cm (4) 1.41 cm (5) 1.40 cm

2.

The figure shows a part of a micrometer screw gauge, when the two jaws touch each other. The zero error of the gauge is,

- (1) 0.43 mm and it should be added to the scale reading.
(2) 0.43 mm and it should be subtracted from the scale reading.
(3) 0.03 mm and it should be added to the scale reading.
(4) 0.03 mm and it should be subtracted from the scale reading.
(5) 0.47 mm and it should be subtracted from the scale reading.



3.

Consider following statements regarding the zero error of a Vernier caliper

- (a) Zero error depends upon the value of the reading taken by the instrument.
(b) Zero error could be removed by taking many reading for a certain measurement.
(c) In order to correct a measurement, zero error should be added or subtracted from the reading as suitable.

True of the above,

- (1) Only (a) (2) Only (b) (3) Only (c)
(4) Only (a) and (b) (5) Only (a) and (c)

4.

Movable jaw of a Vernier caliper doesn't belong,

- (1) fixed internal jaw (2) fixed external jaw
(3) Vernier scale (4) main scale
(5) depth probe

