

Physics

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(Chapter 1) (Units and Measurement) (Exercises) (Class 11)

Question 1.7:

A student measures the thickness of a human hair by looking at it through a microscope of magnification 100. He makes 20 observations and finds that the average width of the hair in the field of view of the microscope is 3.5 mm. What is the estimate on the thickness of hair?

Answer 1.7:

Magnification of the microscope = 100

Average width of the hair in the field of view of the microscope = 3.5 mm

∴ Actual thickness of the hair is $\frac{3.5}{100} = 0.035$ mm.

Question 1.8:

Answer the following:

- (a) You are given a thread and a metre scale. How will you estimate the diameter of the thread?
- (b) A screw gauge has a pitch of 1.0 mm and 200 divisions on the circular scale. Do you think it is possible to increase the accuracy of the screw gauge arbitrarily by increasing the number of divisions on the circular scale?
- (c) The mean diameter of a thin brass rod is to be measured by vernier callipers. Why is a set of 100 measurements of the diameter expected to yield a more reliable estimate than a set of 5 measurements only?

Answer 1.8:

- (a) Wrap the thread on a uniform smooth rod in such a way that the coils thus formed are very close to each other. Measure the length of the thread using a meter scale. The diameter of the thread is given by the relation, $\text{Diameter} = \frac{\text{Length of thread}}{\text{Number of turns}}$
- (b) It is not possible to increase the accuracy of a screw gauge by increasing the number of divisions of the circular scale. Increasing the number divisions of the circular scale will increase its accuracy to a certain extent only.
- (c) A set of 100 measurements is more reliable than a set of 5 measurements because random errors involved in the former are very less as compared to the latter.

Question 1.9:

The photograph of a house occupies an area of 1.75 cm^2 on a 35 mm slide. The slide is projected on to a screen, and the area of the house on the screen is 1.55 m^2 . What is the linear magnification of the projector-screen arrangement?

Answer 1.9:

Area of the house on the slide = 1.75 cm^2

Area of the image of the house formed on the screen

= 1.55 m^2

= $1.55 \times 10^4 \text{ cm}^2$

Arial magnification, $m_a = \frac{\text{Area of image}}{\text{Area of object}} = \frac{1.55}{1.75} \times 10^4$

∴ Linear magnifications, $m_l = \sqrt{m_a}$

= $\sqrt{\frac{1.55}{1.75} \times 10^4} = 94.11$

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P McCormack



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