

Model Question Paper
Measuring Instruments (P) - Part I

10th Standard

Science

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 00:30:00 Hrs

Total Marks : 15

5 x 1 = 5

Part-A

- 1) Screw Gauge is an instrument used to measure the dimensions of very small objects upto _____.
(a) 0.1 cm (b) 0.01 cm (c) 0.1 mm (d) 0.01 mm
- 2) In a Screw Gauge, if the zero of the head scale lies below the pitch scale axis, the zero error is _____.
(a) Positive (b) Negative (c) Nil
- 3) The Screw Gauge is used to measure the diameter of a _____.
(a) crowbar (b) thin wire (c) cricket ball
- 4) One light year is equal to _____.
(a) $365.25 \times 24 \times 60 \times 60 \times 3 \times 10^8 m$ (b) $1 \times 24 \times 60 \times 60 \times 3 \times 10^8 m$ (c) $360 \times 24 \times 60 \times 60 \times 3 \times 10^8 m$
- 5) One astronomical unit is the mean distance between the centre of the Earth and centre of the _____.
(a) Moon (b) Sun (c) Mars

Part-B

5 x 2 = 10

- 6) Correct the mistakes if any, in the following statements: i) Astronomical unit is the mean distance of the surface of the sun from the surface of the earth. ii) Light year is the distance travelled by light in one year in vacuum at a speed of $3 \times 10^8 m$ minute.
- 7) Match the items in group A with the items in group B:

Sl.No.	Group-A	Group-B
1.	Small dimensions	Kilometre
2.	Large dimensions	Screw gauge
3.	Long distance	Scale
4.	Small distance	Light year
		Altimeter

- 8) Fill in the blanks: The special methods adopted to determine very large distances are _____ and _____. (Laser pulse method, Light year method, Radio echo method, Astronomical method)
- 9) Least count of a screw gauge is an important concept related to screw gauge. What do you mean by the term least count of a screw gauge?
- 10) Label the following parts in the given screw gauge diagram. i) Head scale ii) Pitch scale iii) Index line iv) Ratchet


