

XI Physics Worksheet

Time: 30 min

Chapter#2 : Unit and Measurement-02

Full Marks: 20

Instructions:

1. All questions are compulsory.
2. Please give the explanation for the answer where applicable.

Q1 - Why other methods to measure the time is replaced by cesium atom clock.

(2 Marks)

Q2 - What are errors? Explain two types of errors?

(3 Marks)

Q3 - Convert 25 Joule into erg.

(3 Marks)

Q4 - Derive the formulae for velocity (v) of water waves that may depend upon their wavelength λ , density of water ρ and acceleration due to gravity g .

(3 Marks)

Q5 - Find the expression for centripetal force if it depends upon mass of the body, speed of the body, and the radius of the circular path.

(5 Marks)

Q6 - Which is the most accurate clock?

(1 Mark)

Q7 - What is the significance of precision?

(1 Mark)

Q8 - What is the responsibility of National physical laboratory (NPL)?

(1 Mark)

Q9 - Name the error associated with the resolution of the instrument.

(1 Mark)