

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 - What do you mean by measurement of a physical quantity?

(2 Marks)

Q2 - Metre is well defined in terms of wavelength and time in terms of periods of radiation why?

(3 Marks)

Q3 - Explain echo method to find the distance of moon.

(3 Marks)

Q4 - If $x = a + bt + ct^2$ where x is in metres and t in seconds, write the units of a, b, c.

(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 - What is atomic mass unit (a.m.u.)?

(1 Mark)

Q7 - Which method is used for measuring nuclear sizes?

(1 Mark)

Q8 - What is principle of homogeneity in dimensional method?

(1 Mark)

Q9 - A quantity has dimensions. Is it necessary it must have a unit?

(1 Mark)