ASSIGNMENT

PHYSICS

CLASS XI

➢ **THEORETICAL QUESTIONS :**

Q1. Find out the dimensions of the following:

      (a) Acceleration
      (b) Kinetic Energy
      (c) Potential Energy
      (d) Linear Momentum
      (e) Time period
      (f) Work
      (g) Pressure
      (h) Surface Tension
      (i) Frequency
      (j) Thrust

Q2. Using Principle of Homogeneity of dimensions check the correctness of the three kinematical equations of motion.

Q3. Discuss in short, how errors propagate in sum, difference, product, division & raised to a power of quantities.

➢ **CONCEPTUAL UNDERSTANDING :**   **(Think it over)**

Q4. Answer the following with suitable reasons (maximum two sentences) :

      (a) Which speed is measured by the speedometer of a scooter?
      (b) Can an object have constant speed but, variable velocity?
      (c) Can the speed of an object be negative?
      (d) Under what condition will the distance & displacement of the same object have the same magnitude?
      (e) Draw position-time graph for a stationary object.

➢ **NUMERICALS :**

Do the following exercises from NCERT textbook part 1 :

      3.14, 3.18,

Note: Assignment to be submitted by 23 July 2014.