WORK SHEET

PHYSICS

CLASS XI

Units and measurement

1. Find the dimensions of latent heat and specific heat?
2. Two resistances R1 = 100±3 and R2 = 200±4 are connected in series. Then what is the equivalent resistance?
3. If velocity, time and force were chosen the basic quantities, find the dimensions of mass?
4. Write dimension of
    a. Force
    b. Work
    c. Gravitational constant
    d. Power
    e. Energy
    f. Density
5. Round off the value corresponding to 4 significant figure
    a. 2.356
    b. 3.458
    c. 2.555
    d. 8.899
6. What is absolute error?
7. What is relative error?
8. What is accuracy and precision, example?
9. Convert 1Newton to Dyne.
10. Convert 1 Joule to Erg.
11. Explain Parallax method to measure distance and diameter of planets.
12. Derive time period of simple pendulum by method of dimensional analysis.
13. The length of a table measured. The successive measurements are (in m) 5.32, 5.45, 5.28, 5.32, 5.35, calculate absolute error, relative error and percentage error.