



GOVIND VIDYALAYA TAMULIA

(A Senior Secondary School Affiliated to C.B.S.E. (New Delhi) School No - 08249)
An ISO 9001:2008 Certified School bearing no. QCMPL/Q/J/0270

RETEST PRACTICE SHEET FOR FINAL TERM EXAMINATION 2014-2015

SUBJECT:-PHYSICS

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1. State and prove Work Energy Theorem.
 2. State Kepler's law of planetary motion.
 3. Define terminal velocity. Obtain an expression for terminal velocity of a sphere falling through a viscous liquid.
 4. Establish the relation between C_p and C_v .
 5. If $x = at + bt^2$, where x is in metre and t in hour, what will be the unit of 'a' and 'b'?
 6. State Hooke's law. Deduce expression for young's modulus of material of a wire of length 'l', radius of cross section 'r' loaded with a body of mass M producing an extension Δl in it.?
 7. State and prove Bernoulli's theorem.
 8. A body is projected with velocity u at angle θ_0 upward from horizontal. Prove that the trajectory is parabolic.
 9. Discuss the Newton's formula for velocity of sound in air.
 10. Define terminal velocity. Obtain an expression for terminal velocity of a sphere falling through a viscous liquid.
 11. Prove that the elastic potential energy per unit volume is equal to $\frac{1}{2}$ stress \times strain.
 12. Draw graphs showing the variation of acceleration due to gravity with (i) height above earth is surface.
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