

## Lawrence College Murree

### Home Work Assignments for Class O-II(Physics)

1. Draw the table of SI-Units and common prefixes.
2. How does length, mass, thickness, diameter and time can measure?
3. Differentiate between Vernier Calipers and screw gauge.
4. Solve the exercise of unit #1.
5. Differentiate between distance and displacement, speed and velocity, positive and negative acceleration.
6. Write down the equation of motion when body start from rest.
7. Differentiate between balance and imbalance forces.
8. State and explain Newton's laws of motion.
9. How does vectors quantities can add and subtract? Explain.
10. Differentiate between scalars and vectors quantities.
11. Solve the exercise of unit #2.
12. What are the factors upon which torque depends?
13. Differentiate between center of mass and center of weight.
14. State and explain linear momentum.
15. Differentiate between force and pressure.
16. How does liquid pressure measure?
17. Define atmospheric pressure.
18. State and explain Pascale's law and write down its applications.
19. Solve the exercise of unit #3 and 4.
20. Differentiate between potential and kinetic energy.
21. Differentiate between work and energy.
22. Define power and its SI-unit.
23. Define the term efficiency with mathematical expression.
24. Solve the exercise of unit #5.
25. Differentiate between heat and temperature.

**For assistance:**

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