**PHY107 LAB**

Important Questions for the final exam from Experiment-1 & Experiment-2.  
  
Experiment-1:  
1. What is the difference between accuracy and precision?  
2. Which is more precise tool: Ruler or Vernier caliper? Why?  
3. What is standard deviation?  
4. What is error propagation? Write down the formula of error propagation for volume.  
5. Suppose A and B are two physical quantities. Let F defines a new physical variable that is determined by F = f (A,B). Write down the formula of standard deviation for F.  
6. What is pitch of a screw?  
7. How is the pitch found?  
8. What is the least count (L.C.) of the screw gauge?  
9. How the L.C. of a screw gauge is found?  
10. What is meant by zero error of a screw-gauge?  
11. What is the degree of accuracy of the screw gauge?  
  
Experiment-2:  
1. What is potential and kinetic energy?  
2. What is elastic collision and inelastic collision?  
3. Name some factors that would affect the bounce height.  
4. Consider a ball of mass 0.050 kg release from 0.85 m height, what velocity does the ball will attain when it hits the floor?  
5. Without air resistance, the ball is still not being able to bounce to its original drop height, why?  
6. How do you describe error bars?