King Fahd University of Petroleum and Minerals
Department of Physics

Name: PHYS 205 prelab Quiz-09/09/2020
ID#:   **Due time 12:30 pm**

Show detalied solution using **your hand writing only on white paper**, typing or printing will not be accepted. Then, take clear image of your answer and then send it to my email

Q: Example: a stone is thrown vertically straight up from ground with initial speed $v_0 = 4.00 \pm 0.200$ m/s. After a time $t = 0.600 \pm 0.0600$ s the height reached is 0.636 m. Calculate the uncertainty of height? Assume $g = 9.80$ m/s^2 (no uncertainty in g).

Formulas that might be needed to solve:

$v_f = v_0 - gt$
$v_f^2 = v_0^2 - 2g\,(y_f - y_0)$
$y_f - y_0 = v_0 t - (1/2)gt^2$