King Fahd University of Petroleum and Minerals Department of Physics

Name: PHYS 205 prelab Quiz-10/07/2020 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 watheq@kfupm.edu.sa

Q: As shown in the figure below, unpolarized light with intensity I_0 is initially incident on the three polarizers in a line. The first polarizer has a polarizing direction that is vertical. The second polarizer has a polarizing angle of 45.0° with respect to the vertical. The third polarizer has a polarizing angle of 90.0° with respect to the vertical. Calculate the percentage of light intensity that will exit the third polarizer relative to I_0 ?

