Closed book and notes.
Show your work for credit and place a box around each of your answers.

1. Write two equations for Vc(t) (one for each transition in the input, Vs) in the following circuit noting RC (= 100 ns) is much smaller than the pulse width (1us) and period (2us) of the input. What is Vc(t) if the pulse width and period are changed so that they are much shorter than the RC time? (5 points)