

4. a) info : thuld - tocq + tskew = 25-30 + tops = 45 ps

b) two-phase Latch: thuld - tocq - tnonwerlap + tskew

c) pulsed Latch: = 21-38-40+50 = 5ps

thuld + tpw - tocq + tskew = 21+30-30+60

= 15ps

10

to - (tsetup + tnonoverlap + tskew) = 600 - (20 + 40 + 50) = 140 ps