Prelab 6 Quiz Digitron

$\circ\!\!-\!\!\triangleright\!\!\vdash\!\!-\!\!\circ V_2$

- if $V_1 > V_2$
  - D = forward Bias
    - act as Battery Source

  $V_1 \circ\!\!-\!\!\vdash\!\!-\!\!\circ V_2$

  0.7
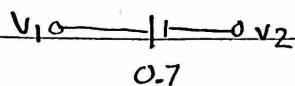
- If $V_1 < V_2$ D = reverse Bias
  - acts as open Circiut

  $V_1 \circ\!\!-\!\!\circ \quad \circ\!\!-\!\!\circ V_2$

  D

a)
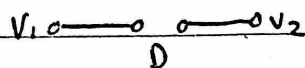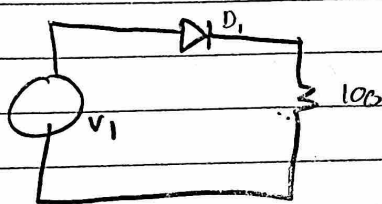
- if $V_1 = 5v$

  $5v \!\!-\!\!\triangleright\!\!\vdash\!\!-\!\!0v$
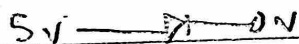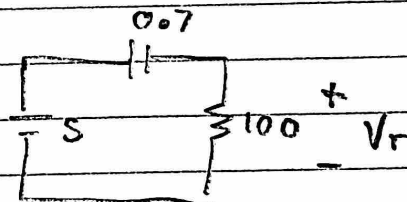
  D = forward bias

$$S = V_D + V_r$$

$$V_r = 5 - 0.7 = 4.3v$$

if $V_1 = -5v$

$-5v \!\!-\!\!\triangleright\!\!\vdash\!\!-\!\!0v$
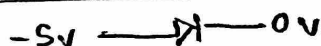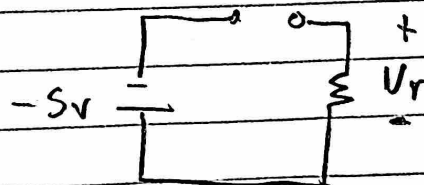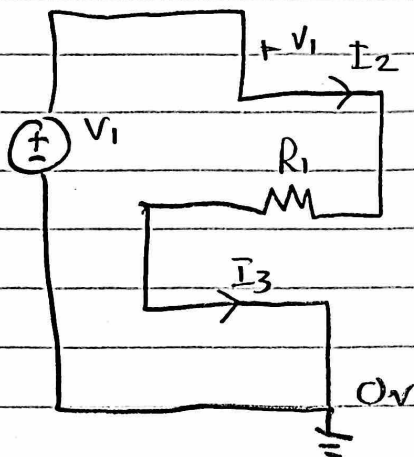
D = Reverse Bias

$$V_r = 0v$$

Lab Quiz 6   Digitron

assume, D_2 & D_3 in forward bias
D_1, D_4 Reverse Bias

If $V_1 = +Ve$ ten $I_1 = I_3 = positive$ ✓

D_1, D_4 = Reverse bias (So off)

D_2, D_3 = forward bias (So ON)