P #34b

b) V is equal to 36 V for any capacitors connected in parallel.

For C_1:

$V_1 = 36\,V$
$C_1 = 4.0\,\mu F$

$Q_1 = C_1 \cdot V_1$
$= (4.0\,\mu F)(36\,V)$
$Q_1 = 144\,\mu C$

For C_2:

$V_2 = 36\,V$
$C_2 = 2.0\,\mu F$

$Q_2 = C_2 \cdot V_2$
$= (2.0\,\mu F)(36\,V)$
$Q_2 = 72\,\mu C$

For C_{34}:

$V_{34} = 36\,V$
$C_{34} = 6.0\,\mu F$

$Q_{34} = C_{34} \cdot V_{34}$
$= (6.0\,\mu F)(36\,V)$
$Q_{34} = 216\,\mu C$

Q_3 and Q_4 are both equal to Q_{34}

so

$Q_3 = Q_4 = 216\,\mu C$