1-Т.

$\omega(NH_3) = 20\%$

$\omega = \frac{ep/3}{ep/gi} \cdot 100\%$

$ep/gi = 80г.$

$ep/3 = 20\% \cdot 80 \cdot 100\% = 16г.$

$ep/gi = ep/3 + ep/su.$

$80 = 16 + 64.$

$80 = 80.$

$Cy = 64г$

$m(NH_3) = 80г.$

$\nu = \frac{m}{M} = \frac{80}{17} = 4,7058823.$ моль

$\nu = \frac{N}{Na} = N = \nu \cdot Na = 4,7058823 \cdot 6,02 \cdot 10^{23} = 28,329477 \cdot 10^{23}.$

2-Т.

$m(C_2H_4O_2) = 3г.$

$V = 20мл = 0,02л.$

Т/К: Ұ, С.

Ш: $\nu = \frac{m}{M}$

$M(C_2H_4O_2) = 28 \cdot 12 + 12 + 4 + 32 = 60.$

$\nu = \frac{3}{60} = 0,05$ моль.

$C = \frac{m}{V \cdot M} = \frac{3}{0,02 \cdot 60} = 2,5.$ моль/л.