. **(57) :** By molarity equation : $M_1V_1 + M_2V_2 = M_3V_3$

or, $2 \times 20 + 0.5 \times 400 = M_3 \times 420$

or $40 + 200 = M_3 \times 420$

or $M_3 = \dfrac{240}{420} = 57 \times 10^{-2}\,\mathrm{M}$