

$$2R_2 \times 1.8 - 18000 \times 1.05 = 0$$

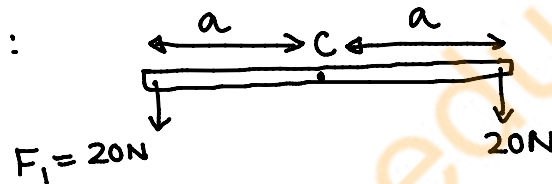
$$3.6R_2 = 18000 \times 1.05$$

$$R_2 = \frac{18000 \times 1.05}{3.6} = 5000 \times 1.05 = \underline{5250 \text{ N}}$$

by ΣF_y ① $R_1 + 5250 = 9000$
 $R_1 = 9000 - 5250 = \underline{3750 \text{ N}}$

Note:

Case I:



$$\Sigma F_y = 20 + 20 = 40 \text{ N}$$

$$\therefore \Sigma F_y \neq 0 \Rightarrow a_{cm} \neq 0$$

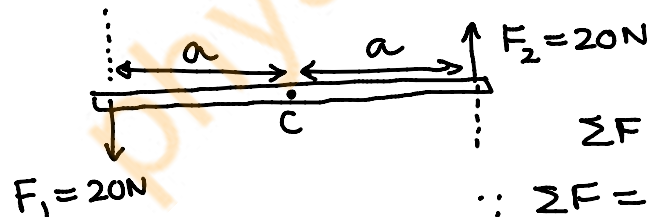
$\rightarrow$ body is not in Trans. equilibrium

$$\Sigma \tau = +20 \times a - 20 \times a = 0$$

(about C)

$$\therefore \Sigma \tau = 0 \Rightarrow \alpha = 0 \rightarrow \text{body is in rot. equilibrium}$$

Case II:



$$\Sigma F = F_2 - F_1 = 20 - 20 = 0$$

$$\therefore \Sigma F = 0 \Rightarrow a_{cm} = 0$$

$\rightarrow$ body is in Trans. Equilibrium