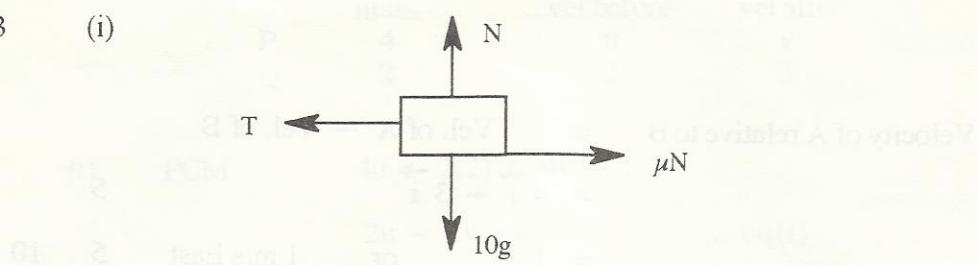


3 (i)



$$(ii) \quad A: \quad N = 10g$$

$$T - \mu N = 10(1)$$

$$T - \mu(100) = 10 \quad \dots \dots \text{eq(i)}$$

$$B: \quad R = 10g \cos X = 8g$$

$$10g\sin X - \mu R - T = 0 \quad (1)$$

add equations (i) and (ii)

180 *U.S.* —

9

(III)

$$1 - 100\mu = 10$$

$$T = 10 + 100(0.222)$$

$$= 32.2 \text{ N}$$