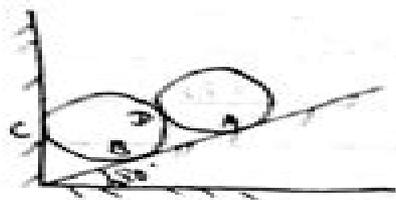




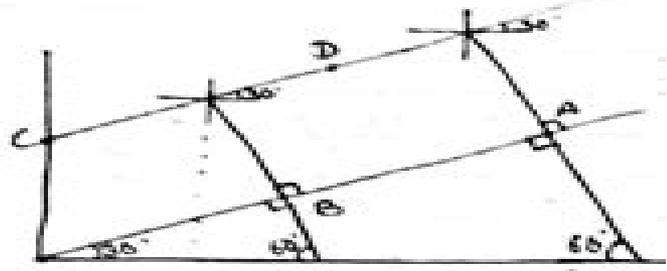
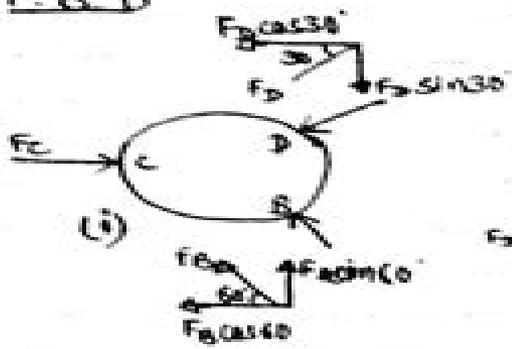
1. Sol<sup>n</sup>

F.B.D



$$W_A = 1800 \text{ N}$$

$$W_B = 1600 \text{ N}$$



for body (i)

Applying equilibrium equn

$$\sum F_x = 0 \quad (\rightarrow \text{tve})$$

$$\text{or, } F_C - F_B \cos 60 - F_D \cos 30 = 0$$

$$\text{or, } F_C - \frac{F_B}{2} - \frac{\sqrt{3}F_D}{2} = 0 \quad \text{--- (i)}$$

$$\sum F_y = 0 \quad (\uparrow \text{tve})$$

$$\text{or, } F_B \sin 60 - F_D \sin 30 - 1600 = 0$$

$$\text{or, } \frac{\sqrt{3}F_B}{2} - \frac{F_D}{2} = 1600$$

$$\text{or, } \sqrt{3}F_B - F_D = 3200 \quad \text{--- (ii)}$$

for body (ii)

$$\sum F_x = 0 \quad (\rightarrow \text{tve})$$

$$F_D \cos 30 - F_A \cos 60 = 0$$

$$\frac{\sqrt{3}F_D}{2} - \frac{1}{2}F_A = 0$$

$$\sqrt{3}F_D = F_A \quad \text{--- (iii)}$$

$$\sum F_y = 0 \quad (\uparrow \text{tve})$$

$$F_D \sin 30 + F_A \sin 60 = 1800$$

$$F_D + \sqrt{3}F_A = 3600 \quad \text{--- (iv)}$$

$$\text{or, } F_D + 3F_D = 3600 \quad \text{From (iii)}$$

$$\text{or, } F_D = 900 \text{ N}$$

# Questions And Solutions In Applied Mechanics

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