20/04/2018



Exemplar Problems-Physics

are 150 equal division on scale A and 100 on scale B. The relationship for conversion between the two scales is given by

(a)
$$\frac{t_A - 180}{100} = \frac{t_B}{150}$$

(b)
$$\frac{t_A - 30}{150} = \frac{t_B}{100}$$

(c)
$$\frac{t_B - 180}{150} = \frac{t_A}{100}$$

(d)
$$\frac{t_B - 40}{100} = \frac{t_A}{180}$$

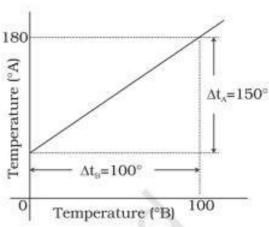


Fig. 11.1

From graph of TA Lower fixed point (LFP) = 30° € Opper fixed point (UFP) = 180 Similarly, for TB DEP = 100'; DE LEP = 0. of temperature By using formula for conversion from one scale to another; => tA - (IFP)A = tB - (IFP)8 (UFP)A- (LFP)A (UFP)B- (LFP)D = $T_A - 30 = T_B - 0$ 100 - 6 180-30 $\frac{1}{150} = \frac{1}{100}$ option (6)