Amount of solar energy received on the earth's surface per unit area per unit time is defined a solar constant. Dimension of solar constant is

- (1)  $ML^2T^{-2}$
- (2) MLT<sup>-2</sup>
- (3)  $M^2L^0T^{-1}$ (4)  $ML^0T^{-3}$

**(b)** Solar constant = 
$$\frac{\text{Energy}}{\text{Time Area}}$$

Dimension of Energy,  $E = ML^2T^{-2}$ 

Dimension of Time = T

Dimension of Area =  $L^2$ 

: Dimension of Solar constant

$$= \frac{M^1 L^2 T^{-2}}{TL^2} = M^1 L^0 T^{-3}.$$