

- (a) 8 W.
- (b) 12 W.
- (c) 14.4 W.
- (d) 18 W.

6. We know that average power dissipated in an 1-R

circuit is:- $l_{av} = (E_{mms})(T_{mms}) \cos \phi$   $\chi_{z} = 1.\Omega$ ,  $R = 2.\Omega$ ,  $V_{mms} = 6V$  (Given)

( $X_R$ )  $l_{av} = (X_R^2 + X_L^2)$   $l_{av} =$ 

 $\frac{1}{2} \int_{av}^{2} = \left(\frac{\varepsilon^{2}}{2}\right) R$   $= \left(\frac{\varepsilon^{2}}{2}\right)^{2} = \frac{1}{2} = \frac{1}{4} \cdot \frac{1}{4} \omega$   $= \frac{1}{4} \cdot \frac{1}{4} \omega$   $= \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \omega$