

- 26** A generator produces a current of 60 A r.m.s. at a voltage of 120 V r.m.s. The voltage is stepped up to 4500 V r.m.s. by an ideal transformer and transmitted through a power line of total resistance  $1.0\ \Omega$ .

What percentage of the power is lost in the transmission line?

- A**    0.048 %                      **B**    0.036 %                      **C**    0.024 %                      **D**    0.018 %