

- 26** A transformer has a turns ratio of primary to secondary coil of 10 : 1. It is 92% efficient due to joule heating losses.

A 240 V r.m.s. alternating voltage is applied to the primary coil, and a $6.0\ \Omega$ resistor is connected to the secondary coil.

What is the r.m.s. current flowing in the primary coil?

A 0.25 A

B 0.37 A

C 0.43 A

D 0.62 A

- 27** When electromagnetic radiation of frequency f irradiates a metal surface, electrons are