28 An electromagnetic radiation of constant frequency is incident on a metal surface.

Which statement explains why the photoelectric current from the metal surface is proportional to the intensity of the incident electromagnetic radiation?

A Radiation of greater intensity causes the metal surface to get warm and so emit more electrons.

B Radiation of greater intensity consists of more energetic photons.

C Radiation of greater intensity means more photons per second strike the metal surface.

D Radiation of greater intensity overcomes the metal's work function energy allowing more electrons to escape.