

9. Radiation is incident on a clean zinc plate causing photoelectrons to be emitted.  
The source of radiation is replaced with one emitting radiation of a higher frequency.  
The irradiance of the radiation incident on the plate remains unchanged.

Which row in the table shows the effect of this change on the maximum kinetic energy of a photoelectron and the number of photoelectrons emitted per second?

	<i>Maximum kinetic energy of a photoelectron</i>	<i>Number of photoelectrons emitted per second</i>
A	no change	no change
B	no change	increases
C	increases	no change
D	increases	decreases
E	decreases	increases