

Condition Needed
For Photoelectric

<u>Classical</u>	<u>Modern</u>

Kinetic energy of emitted electron is independent of the brightness of the light

The brighter the light, increase the number of electron emitted

Maximum kinetic energy of emitted electrons can be calculated by differences of incoming photon energy and the work function of metal surface

Kinetic energy of emitted electron is dependent of the brightness of the light

At low brightness, it would take some time before the electron start to escape from metal surface

Emission starts as soon as the radiation falls on the metal surface

Emission only occur if the incident frequency is above threshold frequency

Cannot explain about threshold frequency of the metal surface

An increase in brightness of light would increase the energy of emitted electrons, not to increase the number of electron emitted

Cannot explain about the maximum kinetic energy of emitted electrons