

NEET	Class - 12 th	Topic - Photoelectric
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- Which of the following quantities remains unchanged in photoelectric emission?
(a) Work function (b) K.E.
(c) Stopping potential (d) Photoelectric current
- The stopping potential in a photoelectric experiment depends on:
(a) Intensity (b) Frequency
(c) Work function (d) Both b and c
- Photoelectric effect supports:
(a) Wave nature of light
(b) Particle nature of light
(c) Newton's corpuscular theory
(d) None
- The maximum kinetic energy of photoelectrons is directly proportional to:
(a) Intensity (b) Frequency
(c) Wavelength (d) Work function
- If the frequency of incident radiation is less than threshold frequency, then:
(a) No electrons emitted (b) Electrons emitted slowly
(c) Intensity increases (d) Current doubles
- Work function of a metal is 2 eV. Incident light energy is 5 eV. The K.E. of emitted electrons is:
(a) 2 eV (b) 3 eV
(c) 5 eV (d) 7 eV

7. Threshold wavelength for a metal is 500 nm. Will 600 nm light cause photoemission?
- (a) Yes (b) No
(c) Depends on intensity (d) Depends on potential
8. When intensity of light is increased, what changes in photoelectric emission?
- (a) K.E. (b) Threshold frequency
(c) Current (d) Work function
9. Which equation explains photoelectric effect?
- (a) Newton's Law (b) Planck's Law
(c) Einstein's equation (d) Maxwell's equations
10. What is the SI unit of work function?
- (a) Joule (b) Electronvolt
(c) Ampere (d) Volt