

27.c.9. In photoelectric effect, explain why the stopping potential depends on the frequency of the light but not the intensity.

27.11. 350nm light strikes a potassium plate and electrons having a maximum KE of 1.31eV are emitted. Find the work function, the cut-off wavelength and frequency corresponding to cut-off.

27.12. When a certain metal is illuminated with light of  $3.0 \times 10^{15}$  Hz, a stopping potential of 7.0V is required to stop the most energetic electrons. What is the work function of the metal?