

(1 mark) Work function: It is the minimum amount of energy required to liberate an electron from the metal surface.

(1 mark)1. Photoelectric effect is instantaneous process.

(1 mark)2. There exists certain minimum cut-off frequency called threshold frequency below which photoelectric emission does not take place.

(1 mark)3. The photoelectric current is directly proportional to the intensity of incident radiation, provided the frequency of incident radiation is greater than threshold frequency. Also the saturation current is directly proportional to the intensity of incident radiation.

(1 mark)4. The stopping potential or maximum KE of emitted photoelectrons is directly proportional to the frequency of incident radiation but independent of intensity.

give full marks if all the points are covered meaningfully. If answer is correct but the keyword is missing then give 0 to 0.5 mark per part. All the keywords should be present