Que 1)photoelectric work function
(1) Is different for different materials (2) Is same for all metals
(4) Depends upon intensity of the incident light 3) Depends upon frequency of the incident light

Sol. Answer (1)
Work function is the property of material.3.

Que 2) The phenomenon of photoelectric effect was first explained by

(1) Hallwach (2) Einstein (3) Planck (4) Bohr

Sol. Answer (2)
Einstein won the Nobel Prize for predicting photoelectric effect by proposing the dual nature of light

Que 3)wave nature of light cannot explain photoelectric effect because in photoelectric effect, it is seen that

. (1) For the frequency of light below a certain value, the photoelectric effect does not take place, irrespective of intensity

. (2) Maximum kinetic energy of ejected electrons is independent of intensity of radiation

. (3) There is no time lag between the incidence of radiation and emission of electrons

. (4) All of these

Sol. Answer (4)
(Laws of photo electric emission)

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