Which of the following is the best interpretation of the differential scatter cross section?

A. The area subtended by the scattering site at a specified angle
B. The derivative of the magnitude of scatter per unit solid angle
C. The fraction of energy scattered per electron areal density per unit solid angle subtended by the detector
D. The fraction of energy scattered per unit solid angle subtended by the detector

Which of the following is the best description of the model for the calculation of Thomson scatter?

A. The incident electromagnetic wave causes an electron to accelerate, which in turn, induces an electromagnetic field.
B. The incident electromagnetic wave causes an electron to move in a sinusoidal motion, eventually causing the electron to be ejected from the atom.
C. The incident photon collides with an electron causing it to generate a scattered photon.
D. The incident photon is absorbed by an electron, elevating it to a higher energy state, releasing radiation when it returns to the ground state.