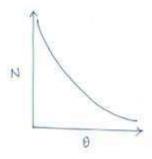
Downloaded from www.studiestoday.com

ASSIGNMENT

PHYSICS CLASS XII

Q1. In the adjoining graph θ is the angle of scattering and N is no. of α particles scattered in Rutherford's expt. Explain the graph.



- Q2. Define impact parameter.
- Q3. Calculate the distance of closest approach of an α particle to a nucleus having charge +ze.
- Q4. Which atomic facts could not be explained using Bohr's atomic model?
- Q5. Define excitation, ionization, excitation energy and ionization energy.

If E_1 =-13.6ev, E_2 = -3.4ev and E_3 = -1.5 ev for a hydrogen atom then calculate 1_{st} excitation energy and ionization energy of the atom.