Structure of Atom - I.

Exemplar Problem 1:-

1) Which of the following conclusions could not be derived from Rutherford's α-particle scattering experiment.

(a) Most of the ~~at~~space in the atom is empty.

(b) The radius of the atom is about 10^{-10} m while that of nucleus is 10^{-15} m.

(c) Electrons move in a circular path of fixed energy called orbits.

(d) Electrons and the nucleus are held together by electronic state/force of attraction.

Soln: The circular path of fixed energy called orbit is explained by Neil Bohr, but not Rutherford.

- Hence option C is correct