The simple Bohr modle is not applicable to He<sup>4</sup> atom because

- (a) He<sup>4</sup> is an inert gas.
- (b) He<sup>4</sup> has neutrons in the nucleus.
- (c) He<sup>4</sup> has one more electron.
- (d) electrons are not subject to central forces.

## Correct options are C) and D)

Bohr's atomic model is applicable only for one electron species and in He<sup>4</sup> there are two electrons. Electrons are not subject to central forces due to longer distance than nuclear size, hence verifies answer (c) and (d).