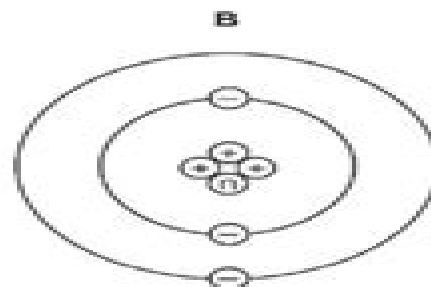
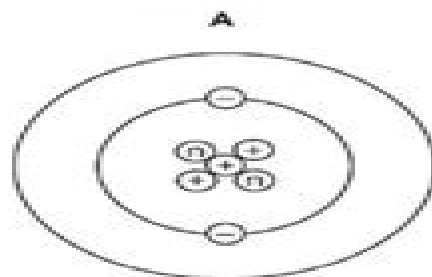


Topic 18.1 – Atomic physics

An atom of the element lithium has a nucleon number of 7 and a proton number of 3.

Which diagram represents a neutral atom of lithium?



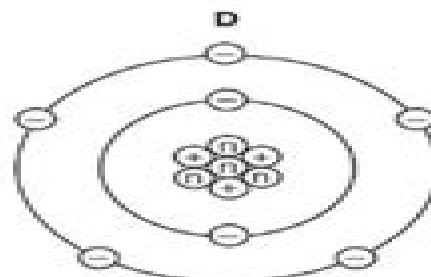
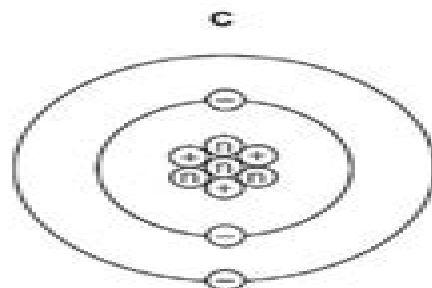
key

$\odot$ = a neutron

$\oplus$ = a proton

$\ominus$ = an electron

(not to scale)



How many neutrons and how many protons are contained in a nucleus of $^{238}_{92}\text{U}$?

	neutrons	protons
A	92	146
B	146	92
C	146	238
D	238	92

A nuclide of substance X has the symbol $^{26}_{12}\text{X}$.

How many electrons are there in a neutral atom of substance X?

A 12

B 14

C 26

D 38

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