ATOMIC STRUCTURE HW 2

1 Which statement about the atom is **not** correct?

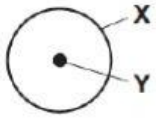
A A nucleus contains electrons, neutrons and protons.

B A nucleus contains most of the mass of the atom.

C Protons have positive charge.

D Neutrons have no charge.

2 In the simple model of an atom, **X** orbits around **Y**.



What are **X** and **Y**?

	X	Y
A	electron	nucleus
B	neutron	electron
C	nucleus	proton
D	proton	neutron

3 Which particle has the smallest mass?

A electron

B hydrogen ion

C neutron

D proton

4 Which particle is positively charged?

A electron

B neutral atom

C neutron

D proton

5 What is the nucleon number of a sodium atom $^{23}_{11}Na$?

A 11

B 12

C 23

D 34

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6 Aluminium has the symbol $^{27}_{13}Al$.

Which is a correct line of data for an atom of aluminium?

	number of		
	protons	electrons	neutrons
A	13	14	14
B	13	13	14
C	13	14	27
D	14	13	27

7 What is the definition of nucleon (mass) number?

A the mass in grams of an atom

B the number of electrons in an atom

C the number of nuclei in a molecule

D the total number of protons and neutrons in an atom

8 Which table correctly identifies the locations of protons, neutrons and electrons in an atom?

A

	inside nucleus	outside nucleus
electrons	✓	
neutrons	✓	
protons		✓

B

	inside nucleus	outside nucleus
electrons		✓
neutrons		✓
protons	✓	

C

	inside nucleus	outside nucleus
electrons	✓	
neutrons		✓
protons		✓

D

	inside nucleus	outside nucleus
electrons		✓
neutrons	✓	
protons	✓	

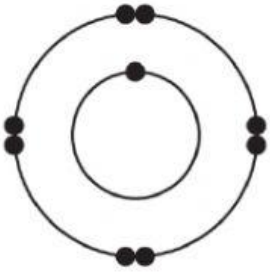
9 What are the numbers of neutrons, protons and electrons in a neutral atom of $^{235}_{92}U$?

	number of neutrons	number of protons	number of electrons
A	92	143	143
B	92	235	235
C	143	92	92
D	235	92	92

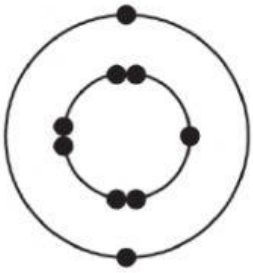
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10 Which electronic structure represents a fluorine atom?

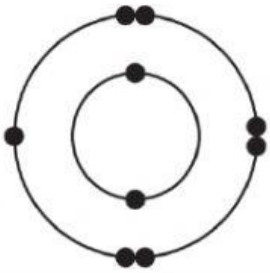
A



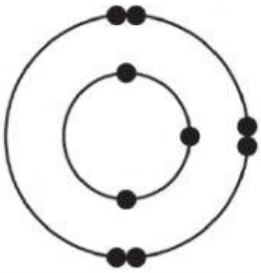
B



C



D



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