

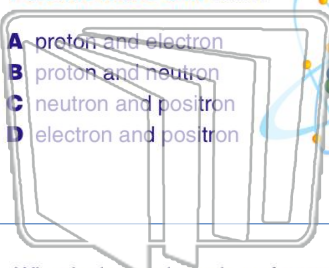


Name _____ Class _____ Date _____

1

Which subatomic particles have a mass of approximately **1 atomic mass unit** each?

- A proton and electron
- B proton and neutron
- C neutron and positron
- D electron and positron



2

Experiments with **gold foil** indicated that atoms

- A usually have a uniform distribution of positive charges
- B usually have a uniform distribution of negative charges
- C contain a positively charged, dense center
- D contain a negatively charged, dense center

3

What is the total number of **completely filled sublevels** found in an atom of krypton in the **ground state**?

4

Which electron configuration represents an atom in the **excited state**?

A $1s^2 2s^2 2p^5 3d^1$

5



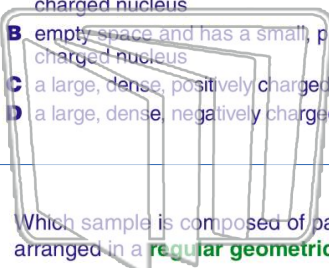
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7

the conclusion that an **atom** is composed mostly of

- A empty space and has a small, negatively charged nucleus
- B empty space and has a small, positively charged nucleus
- C a large, dense, positively charged nucleus
- D a large, dense, negatively charged nucleus

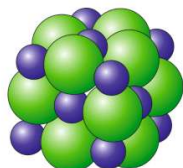


- A 8
- B 16
- C 3
- D 4

9

Which sample is composed of particles arranged in a **regular geometric pattern**?

- A $\text{Cl}_2(\text{g})$
- B $\text{CCl}_4(\text{l})$
- C $\text{LiCl}(\text{s})$
- D $\text{LiCl}(\text{aq})$



10

What is the total number of orbitals in the **d sublevel** of an atom?

- A 1
- B 7
- C 3
- D 5



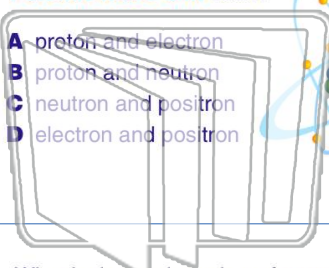


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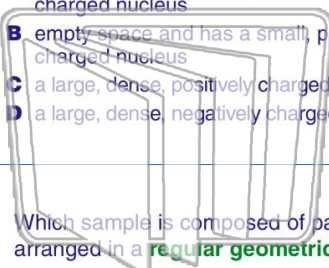
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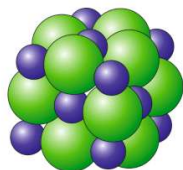


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