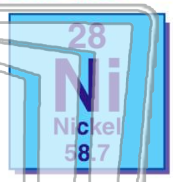
Atomic Structure - Set I

CHEM

Name_____ Class_____ Date_____

1 What is the **total number of sublevels** that contain electrons in the third principal energy level of a **nickel atom** in the ground state?

A 1
B 2
C 3
D 4



2 What is the **nuclear charge** of an **iron atom**?

A +26
B +30
C +56
D +82

3 Which electron configuration represents an element with the **highest first ionization energy**?

4 An atom of oxygen is in an **excited state**. When an electron in this atom moves from the third shell to the second shell, **energy** is

PREVIEW

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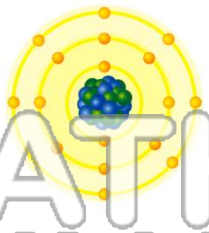
5

7

A decreases
B increases
C remains the same

excited state?

A 2–7–7
B 2–7–8
C 2–8–7
D 2–8–8

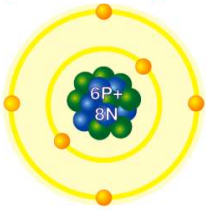


9 An atom of **fluorine** has a mass of **19 atomic mass units**. The total number of protons and neutrons in its nucleus is

A 9
B 10
C 19
D 28

10 What is the **atomic number** of an element that has **six protons** and **eight neutrons**?

A 6
B 2
C 8
D 14



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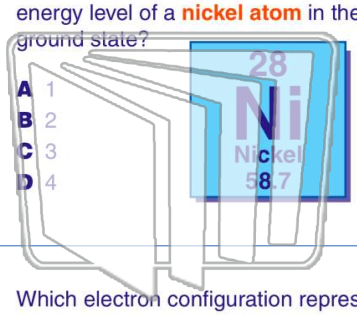

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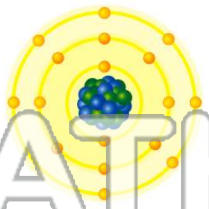

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