Chem 1 Basic Atomic Structure Test Practice Questions: In class
1.
The atoms in an element are:
All the same type
Two types joined together
About a hundred different types
2. An atom consists of: An electron surrounded by a nucleus A nucleus containing electrons A nucleus surrounded by electrons
3. What is the correct chemical symbol for sodium? NA Na Na na
4. What are the groups in the periodic table? A row of similar elements A column of similar elements The boxes in the table
How many protons, neutrons and electrons are there in a Al-27 atom? 13 protons, 27 neutrons and 14 electrons 13 protons, 27 neutrons and 13 electrons 13 protons, 14 neutrons and 13 electrons
Show your calculation for neutrons:

6 .		
WI	nich of the following does the nucleus contain?	
0	protons and electrons	
0	protons and neutrons	
0	neutrons and electrons	
7 .		
WI	nich of the following statements is correct?	
0	Protons are positively charged and neutrons are negatively charged.	
0	Protons are negatively charged and electrons are positively charged.	
0	Protons are positively charged and electrons are negatively charged.	
8.		
WI	nat is the atomic number of an atom?	
0	The number of atoms it contains.	
0	The number of protons it contains.	
0	The number of neutrons it contains.	
9.		
WI	nich of the following statements is true of an atom?	
0	The number of protons is always equal to the number of neutrons.	
0	The number of protons is always equal to the number of electrons.	
0	The number of neutrons is always equal to the number of electrons.	
	11. He has an atomic number of 2 and mass number of 4. The number of electrons in a	
	neutral atom of He is	
	0 4	
	O 2	
	O 6	
	12. Atoms with the same number of protons but different number of neutrons are called	
	O ions	
	C nuclei	
	 isotopes 	

13	. Th	e mass of a proton is
	0	1/1840 amu
	0	2 amu
	0	1 amu
14	. Th	e number of protons in a neutral atom will be equal to the number of
	0	neutrons
	0	electrons
	0	electrons + neutrons
15	. Wh	nat is the mass number of a CI atom which has 17 protons and 18 neutrons?
	0	17
	0	18
	0	35
16	. Th	e mass of a neutron is
	0	1/1840 amu
	0	2 amu
	0	1 amu
17	. Bro	omine (Br) has 35 protons and a rounded atomic mass of 80 amu. What is the
nuı	mbe	er of neutrons in an atom of Br?
	0	35
	0	45
	0	80
18	. Th	e negatively charged particles of an atom are the
	0	electrons
	0	protons
	0	neutrons
19	. Mo	st of the atom is
	0	protons
	0	nucleus
	0	empty space

20.	The O	e subatomic particles found in the nucleus of an atom are: protons and neutrons protons and electrons
21.	C The	neutrons and electrons e mass number of an atom is the sum of the numbers of the
	0 0	protons and neutrons electrons and protons neutrons and protons
22.	An O O	atom as a whole is electrically neutral (has no charge). positively charged. negatively charged.
23	The O O	e particles with no charge in an atom are the electrons protons neutrons
24.	The O O	e relative mass of an electron is 1 amu O or 1/1840 amu 2 amu
		e atomic number of the isotope O-18 atom is 8. Its mass number is 18. The r of neutrons in this isotope 8 10 18
26	Who	nat is the number of electrons of a CI atom which has 17 protons and 18 neutrons? 17 18 35