

(b)

A

Name

Dan Vee 7-E

- Science Test -

1. A substance which can't be broken down by normal chemical means.
2. Particle with a positive charge in the nucleus.
- X 3. A compound that gives OH<sup>-</sup> as the only negative ion.
4. Neutral particle in the nucleus of an atom.
- X 5. A compound which releases H<sup>+</sup> ions as the only positive ion.
6. The smallest particle of an element.
7. The center of an atom.
8. A group of symbols that describe a compound.
- X 9. A group of symbols that shows a chemical reaction.
10. A negative particle that orbits the nucleus of an atom.
11. The smallest particle of a compound.
12. A substance made up of two or more elements bound together.
13. Na is the symbol for \_\_\_\_\_.
14. N is the symbol for \_\_\_\_\_.
15. H is the symbol for \_\_\_\_\_.

proton

~~elect~~

neut

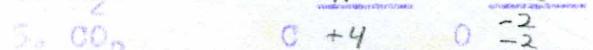
atom

nucle

electron

mole

Find the valence of all elements in these compounds:



-3

-3

-3

-0

-0

-6

Name Dan UE

Draw the atom and find the valence of the following elements:

1	H	1
		1

+1

8	O	16
		16

+6

9	F	19
		19

+7

11	Na	23
11		23

+1

17	Cl	35
17		35

+7

(1P)  $\ddot{\sigma}$

-2

-1

-7

-1

(8P)  $\ddot{\sigma} \ddot{\sigma}$

(9P)  $\ddot{\sigma} \ddot{\sigma}$

(11P)  $\ddot{\sigma} \ddot{\sigma} \ddot{\sigma}$

(17P)  $\ddot{\sigma} \ddot{\sigma} \ddot{\sigma}$

Draw

8	O	16
		16

Atom

(8P)  
(8N)  $\ddot{\sigma} \ddot{\sigma}$

8	O	16
		16

-2 Ion

(8P)  
(8N)  $\ddot{\sigma} \ddot{\sigma}$

8	O	17
		17

Isotope

(8P)  
(8N)  $\ddot{\sigma} \ddot{\sigma}$   
↓  
Enlarged  
↓  
(8P)  
(9N)  $\ddot{\sigma} \ddot{\sigma}$

Valence +6

-2

N

+5  
-3

H	S	O
+1	+6	-2
+1		-2
		-2
		-2
		-2
+8		-8

N	H	O	H
-3	+4	-2	+1
		<del>-2</del>	
+1	-1		