

(6)

A

Name Dan UE 7-E

- Science Test -

1. A substance which can't be broken down by normal chemical means. elem 1. element
2. Particle with a positive charge in the nucleus. proton 2. proton
- X 3. A compound that gives OH⁻ as the only negative ion. elect 3. Base
4. Neutral particle in the nucleus of an atom. neut 4. Neutron
- X 5. A compound which releases H⁺ ions as the only positive ion. atom 5. Acid
6. The smallest particle of an element. nuclei 6. Atom
7. The center of an atom. 7. Nucleus
8. A group of symbols that describe a compound. 8. Formula
- X 9. A group of symbols that shows a chemical reaction. 9. Base
10. A negative particle that orbits the nucleus of an atom. electron 10. electron
11. The smallest particle of a compound. mole 11. Molecule
12. A substance made up of two or more elements bound together. 12. compound
13. Na is the symbols for _____. 13. Sodium
14. N is the symbol for _____. 14. Nitrogen
15. H is the symbol for _____. 15. Hydrogen

-3

Find the valence of all elements in these compounds:

1. H ₂ SO ₄	H <u>+1</u>	S <u>+6</u>	O <u>-2</u>
2. NaCl	Na <u>-7</u> ✓	Cl <u>+7</u> ✓	
3. NH ₄ OH	N <u>-3</u>	H <u>+1</u>	O <u>-2</u>
4. H ₂ O	H <u>+1</u>	O <u>-2</u>	
5. CO ₂	C <u>+4</u>	O <u>-2</u>	

-3

-3

-0

-0

-6

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

1 H 1 +1 (1P) 1	8 O 16 +6 -2 (8P 8N) 2 6	9 F 19 +7 -1 (9P 10N) 7 1	11 Na 23 $\frac{11}{12}$ +1 -7 (11P 12N) 7 8 1	17 Cl 35 $\frac{17}{18}$ +7 -1 (17P 18N) 7 8 1
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Draw

8 O 16 Atom (8P 8N) 2 6 Valence +6 -2	8 O 16 -2 Ion (8P 10N) 2 8	8 O 17 Isotope (8P 9N) 2 6 ↓ Enlarged (8P 9N) 2 6
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N
+5
-3

H	5	0
+1	+6	-2
+1		-2
		-2
		-2
+8		-8

N	H	O	H
-3	+4	-2	+1
		2	
+1		-1	