Final Exam Review – Multiple Choice Style
Show work for any problem involving number! No work, no credit.

1. How many protons neutrons and electrons	8. Which of the following is the smallest mass
are in Zinc – 66?	A) $2.4 \times 10^3 \text{mg}$
A) 30, 36, 30	B) 3g
B) 30, 33, 30	C) $1.2 \times 10^{-4} \text{Kg}$
C) 30, 30, 36	D) $3.2 \times 10^{2} \text{cg}$
D) 36, 30, 30	E) 3Kg
	L) JKg
E) 30, 30, 30	
	9. What is the missing particle in the nuclear
2. How many hydrogen atoms are present in	decay below
the formula (CH ₃) ₂ CH ₂ ?	$^{14}_{6}C \rightarrow \underline{} + ^{14}_{7}N$
A) 5	A) $\frac{4}{2}\alpha$
B) 8	
	B) $-\frac{0}{1}\beta$
C) 10	$C)$ 00 β
D) 4	D) $\frac{2}{2}\alpha$
E) 7	E) $\frac{-1}{0}\beta$
3. What is the correct formula for Sodium	10. A substance has a half-life of three weeks if
Nitride?	you have 0.5g of the sample after one full
A) NaNO ₃	
B) NaN_3	school year what amount did you start with?
·	A) 190g
C) Na ₃ N	B) 50g
D) NaNO ₂	C) 130g
E) Na_3NO_3	D) 250g
	E) $0.54g$
4. What element has similar properties to	· · ·
bromine?	11 3371
	11. What is the electron configuration of carbon
A) Se	A) $1s^22s^22p^3$
B) S	B) $1s^22s^22p^4$
C) Kr	C) $1s^22s^22p^2$
D) F	D) $1s^22s^2$
E) Mg	E) $1s^22s^22p^1$
	, 1
5. Which of the following has the most	12. How many protons and electrons are in the
electrons?	
A) Sr ²⁺	calcium ion
	A) 20p 20e
B) Kr	B) 20p 18e
C) Br	C) 18p 18e
D) Se^{2}	D) 18p 20e
E) Rb	E) 20p 22e
6. Which of the following is not a metal?	13. By what process doe uranium decay to
A) Ca	thorium?
B) K	
	A) Proton
	B) Neutron
D) Zn	C) Beta
E) Se	D) Alpha
	E) Positron
7. Which of the following will have the	
smallest radius?	14. Which of the following ions has a 21 shares
A) Li	14. Which of the following ions has a 3+ charge
	A) N
	B) Br
C) Li	C) Sr
D) Li ⁺	D) K
E) Na	E) A1

Final Exam Review - Multiple Choice Style

Show work for any problem involving number! No work, no credit.

- 15. Put these elements in order of greatest to smallest electronegativity (Al, Mg,F)
 - A) F, Al, Mg
 - B) Mg, Al, F
 - C) F, Mg, Al
 - D) Al, F, Mg
 - E) Mg, F, Al
- 16. Which of the following is a covalent bond
 - A) KNO₃
 - B) CaO
 - C) NH₄I
 - D) NaCl
 - E) C_2H_6
- 17. What is the difference between ionic and covalent bonds
 - A) Ionic and covalent bonds are the same
 - B) Ionic bonds share protons and covalent bonds have isotopes
 - C) Ionic bonds have ions Covalent bonds share protons
 - D) Ionic bonds have ions and covalent bonds share electrons
 - E) Ionic bonds share electrons Covalent bonds have ions

Α В С 3. 4. D Е 5. 6. Е D 8. С 9. В 10. Α С 11. В 12. D 13. 14. Е 15. Α Е 16. 17. D С 18. 19. Α 20. В Correct your work. Don't just mark the ones you got wrong, you need to FIX them with your GREEN pen. Fill out the table to the right for the ones you missed. If you didn't miss any, pick three that you thought were hardest and instead of wring the "why it was missed" part, write why someone might have missed it. What was tricky about it, or what makes it hard for some people, or what do you need to be careful of or remember when doing a problem like this

- 18. What type of matter is Yttrium
 - A) Nonmetal
 - B) Halogen
 - C) Metal
 - D) Nonmetal
 - E) Metalloid
- 19. A particular radioisotope has a half-life of 9 months. What percentage of the isotope will remain after 45 months
 - A) 3.125%
 - B) 50%
 - C) 25%
 - D) 1.25%
 - E) 91.17%
- 20. Which of the following compounds is polar
 - A) CH₄
 - B) NH₃
 - C) NaNO₃
 - D) CO₂
 - E) N_2

<u>Q #</u>	<u>Topic</u>	Why was
<u>missed</u>	<u>Topic</u> missed	<u>it missed?</u>