Mock 1st Periodical Exam 2nd Term 2014

1-	Which	is an	exami	ole of	a phy	vsical	change?
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- A) The milk in the box left on the table becomes sour after a few days.
- B) The bit of scrap metal dissolves when placed in the container of acid.
- C) The gas is cooled until it finally becomes a liquid.
- D) A piece of paper burns in air with a smoky flame.

2- Which element is a nonmetal?

A) K

B) Co

C) Br

D) Al

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3- Gold has a densit sample of gold? A) 4 cm ³	y of 0.0193 kg/cm ³ . B) 5 cm ³	What would be the	volume occupied by 77.2 g D) 7 cm ³			
4- A heterogeneous		as being:				
A) An element. B) Any material with uniform composition.						
		rent composition and	d properties.			
D) More than	Ver in					
5- Which of the follo	owing is a mixture?					
A) gold	B) air	C) iron	D) helium			

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6- Find which of the following represents the highest tem

A) 20°F

B) 0°C

C) 270 K

D) 0°F

7- Which of the following is false about a neutron?

- A) It has a positive charge.
- B) It is much more massive than an electron.
- C) It is often associated with protons.
- D) It is more difficult to detect than a proton or an electron.

8) The isotope represented by ${}^{13}_{6}\mathrm{C}$ is named

- A) carbon-6
- B) carbon-7
- C) carbon-13
- D) carbon-19

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9- Which of the following statements about matter is FALSE?

- A) Matter is identified as anything that occupies space and has no mass
- B) The properties of matter are determined by the atoms and molecules that compose it
- C) Matter can be classified as solid, liquid, or gas
- The atoms and molecules in the crystalline solid are in patterns with long-range, repeating order

10- How would you describe the nucleus?

- A) Dense, positively charged
- B) Mostly empty space, positively charged
- C) Tiny, negatively charged
- D) Dense, negatively charged

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11- Temperature is a measure of ______.

- A) Average thermal energy of molecules.
- B) Total potential energy of molecules.
- C) Average potential energy of molecules.
- D) Average kinetic energy of molecules.

12- A child had a body temperature of 102 °F. What is her body temperature in °C?

- A) 24.6 °C
- B) 35.8 °C
- C) 38.88 °C
- D) 74.44 °C

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A) noble Gas				
B) haloge				
C) alkali I				
D) alkalir	D) alkaline Earth Metal			
14- Which of th	ne following eler	nents will most likely form an ion with a +1 charge?		
A) CI	C) Mg			
B) Na	D) Al			
15- Which one	of the following	elements is a poor conductor of heat and electricity?		
A) coppe	er	C) iron		
B) fluori	ne	D) lead		

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	ng elements will most likely form an ion with a +1 charge?				
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B) fluorine	D) lead				

16) How many moles and how many atoms of aluminum are in a sample weighing 16.2 g?

A) 0.60 mol, 10.02×10^{-25} atoms C) 1.66 mol, 10.02×10^{-24} atoms

B) 0.60 mol, 3.61×10^{23} atoms

D) 437 mol, 0.09×10^{-23} atoms

17) Group 2A elements are called

A)alkali metals.

B)alkaline earth metals.

C)alkaline salts.

D)beryllium metals.

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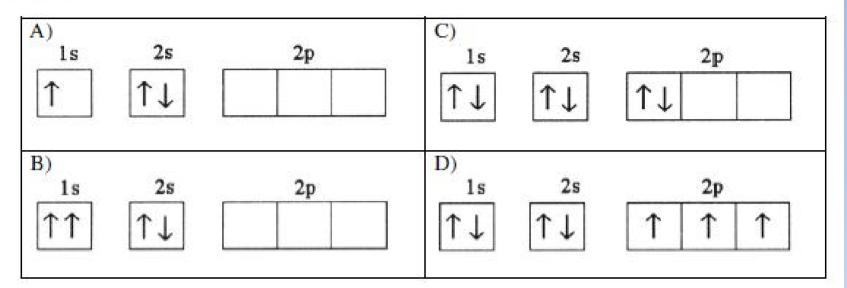
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18) Which electron configuration represents a violation of Hund's rule for an atom in its ground state?



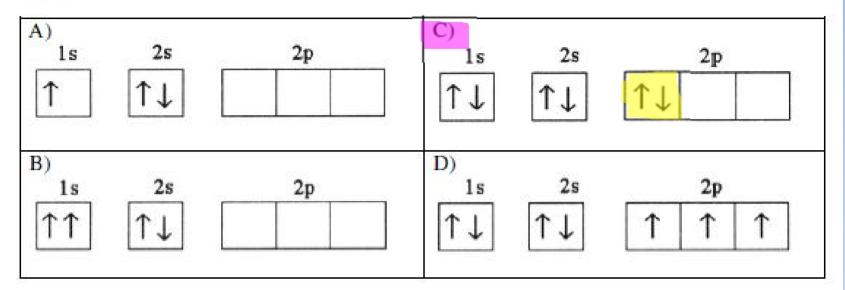
- 19) Each p-subshell can accommodate a maximum of ______ electrons.
 - A) 6

B) 2

C) 10

- D) 3
- 20) Atomic radius generally decreases as we move ______.
 - A) down a group and from right to left across a period
 - B) up a group and from left to right across a period
 - C) down a group and from left to right across a period
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