Al Mutanabi School Science Department Grade: 8



United Arab Emirates Ministry of Education

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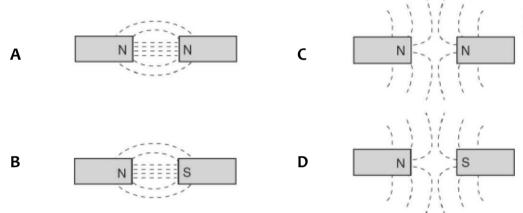
Mock Exam 2

Choose the best answer	Cho	ose	the	best	answei	٠.
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(___/28)

- **1.** How is electricity formed?
 - A- Transfer of protons
 - **B-** Transfer of atoms
 - **C-** Transfer of electrons
 - **D-** Transfer of neutrons
- 2. Which of the following would be the best material to use for making tea kettles?
 - A- graphite, specific heat 710
 - B- iron, specific heat 450
 - **C-** copper, specific heat 380
 - D- aluminum, specific heat 920
- **3.** The location of the strongest magnetic forces is the
 - A- Electromagnets
 - B- magnetic domains
 - **C-** magnetic fields
 - **D-** magnetic poles
- 4. Endothermic reactions are reactions that:
 - A- absorb heat
 - **B-** release heat
 - C- do not involve heat
 - D- take place instantaneously

- 5. An ionic bond is the attraction betweenA- similarly charged ions
 - **B-** oppositely charged ions
 - C- neutral ions
 - **D** neutral atoms
- **6.** A balloon is placed in a cold room. What process takes place inside the balloon?
 - A- Thermal contraction
 - **B-** Thermal conduction
 - C- Thermal radiation
 - **D-** Thermal expansion
- **7.** Which combination of magnetic field lines and poles shows two magnets repelling each other?



- **8.** The function of an electric motor is to change _____.
 - A- chemical energy to electrical energy
 - **B** electrical energy to chemical energy
 - **C** electrical energy to mechanical energy
 - D- mechanical energy to electrical energy
- **9.** Chemical equations must be balanced to satisfy the _____.
 - **A-** law of definite proportions
 - **B** law of multiple proportions
 - **C** law of conservation of mass
 - **D-** principle of Avogadro

a double bond?
a bond between two atoms
one pair of electrons shared between two atoms
two pairs of electrons shared between two atoms
two pairs of electrons shared between four atoms
ctor accounts for the fact that powdered sugar dissolves more quic ted sugar under the same conditions?

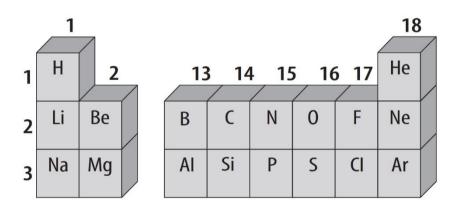
- A- temperature
- **B** concentration
- **C-** nature of reactants
- **D-** surface area
- **12.** What are the two types of current?
 - **A-** Fast and slow current
 - **B-** Alternating and Direct current
 - **C-** Proton and electron current
- **13.** Which of the following is NOT found on the periodic table?
 - A- the atomic number of each element
 - **B-** the symbol of each element
 - **C-** the density of each element
 - **D-** the atomic mass of each element
- 14. A bimetallic coil is made from how many types of coils?
 - **A** 1
 - **B-** 2
 - **C-** 3
 - **D-** 4

1. Ionic bond, covalent bond

2. parallel circuit, series circuit

3. temperature, thermal energy

Directions: This diagram shows the first 18 elements of the periodic table. Use the diagram to answer each question. (___ / 10)



- 4. How many valence electrons do atoms of oxygen (F) have?
- 5. How many valence electrons do atoms of sulfur (P) have?
- **6.** How many chemical bonds can an atom of carbon (Mg) form?
- 7. How many chemical bonds can an atom of carbon (Na) form?
- **8.** How many chemical bonds can an atom of carbon (S) form?