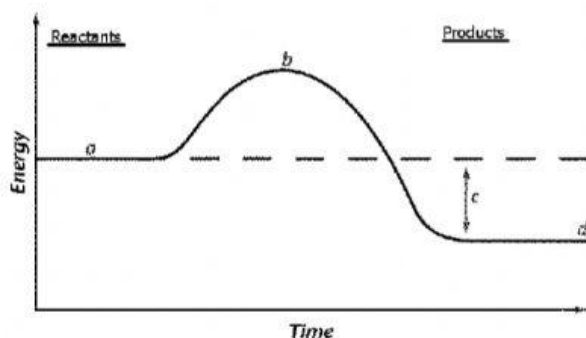


\_\_\_ 35. Which of the following is/are balanced chemical equations? (pick all that apply)

- a.  $\text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$       c.  $2\text{FeO}_3 + 3\text{C} \rightarrow 4\text{Fe} + 3\text{CO}_2$   
b.  $4\text{SO}_2 + 2\text{O}_2 + 4\text{H}_2\text{O} \rightarrow 4\text{H}_2\text{SO}_4$       d.  $2\text{Mg} + \text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$

\_\_\_ 36. In chemical reaction (pick all that apply)

- a. energy is always absorbed      c. energy is either absorbed or released  
b. energy is always released      d. there is no change in mass



\_\_\_ 37. Which point in the diagram (a,b,c, or d) indicates the activation energy level.

- a. a      c. b  
b. d      d. c

\_\_\_ 38. Does the diagram represent a,

- a. exothermic reaction      c. endothermic reaction  
b. nuclear reaction      d. dissolving reaction

\_\_\_ 39. Which point in the diagram (a,b,c, or d) indicates the energy level of the reactants.

- a. b      c. d  
b. c      d. a

\_\_\_ 40. When two or more substances combine to make a more complex compound, the process is called

- a. a synthesis reaction.      c. a precipitate reaction.  
b. a decomposition reaction.      d. a replacement reaction.

\_\_\_ 41. A solid that forms from solution during a chemical reaction is called a

- a. chemical.      c. bond.  
b. precipitate.      d. reactant.

\_\_\_ 42. The force that holds atoms together is called

- a. a chemical change.      c. conservation of matter.  
b. a chemical bond.      d. heat.

\_\_\_ 43. A shorter, easier way to show chemical reactions, using symbols instead of words, is called a

- a. chemical formula.      c. subscript.  
b. symbol.      d. chemical equation.