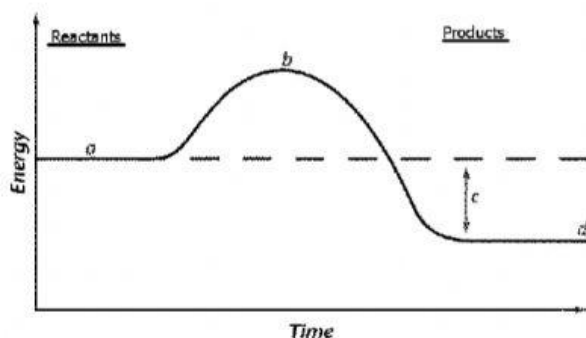


___ 35. Which of the following is/are balanced chemical equations? (pick all that apply)

- 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.