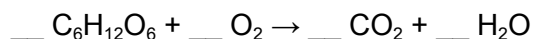


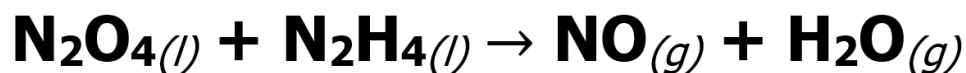
Directions: Choose the letter that corresponds to the correct answer.

1. What should be the coefficients of the reaction given below for it to be balanced?



- 1, 6, 3, 6
 - 1, 6, 6, 6
 - 1, 3, 6, 6
 - 1, 6, 6, 3
2. Which of the following statements is/are TRUE?
- In a redox reaction, the species that undergoes oxidation is the oxidizing agent.
 - The oxidation number of reducing agents decreases after a redox reaction.
 - In oxidation half-reaction, electron/s is/are written on the reactant side.
 - All of the above
 - None of the above

For numbers 3-5, a student is investigating the kinetics of the chemical reaction between N_2O_4 and N_2H_4 . To carry this out, he accurately measured 1 mole of N_2O_4 and 2 moles of N_2H_4 and placed them inside an airtight container to allow them to react. The student wrote the reaction:



3. Which is the limiting reactant?
- N_2O_4
 - N_2H_4
 - there is no limiting reactant
 - more information needed

4. How many moles of NO will be produced?
- a. 1
 - b. 2
 - c. 3
 - d. 6
5. How many moles of the excess reactant will remain unreacted?
- a. 0.5
 - b. 1.0
 - c. 1.5
 - d. 2.0