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1. Which of the following will increase the rate of backward reaction in a reversible reaction?

- Increase in concentration of one of the reactants
- Decrease in concentration of one of the products
- Increase in concentration of one of the products
- None of the above

2. What is the effect of increase in temperature on the rate of a reaction in which heat is given out?

- Rate increases.
- Rate decreases.
- No change occurs.
- Initially rate increases and then decreases.

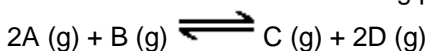
3. Which of the following would favor a reaction in which heat is absorbed?

- High temperature
- Low temperature
- Increase in pressure
- No change in temperature

4. Reaction between iron and steam is reversible if carried out:

- At constant temperature.
- At constant pressure.
- In an open vessel.
- In a closed vessel.

5. What is the effect of increasing pressure on the following reaction at equilibrium?

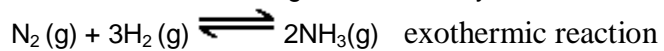


- Forward reaction is favored.
- Backward reaction is favored.
- Equilibrium is not affected.
- Temperature increases.

6. For the reaction $CO(g) + H_2O(g) \rightleftharpoons CO_2(g) + H_2(g)$ at equilibrium, the amount of CO_2 is increased by:

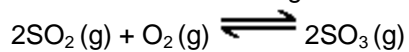
Adding a catalyst.
Decreasing the volume.
Increasing the pressure.
Increasing the amount of CO.

7. Which of the following increases the yield of ammonia in the following reaction:



Low temperature, low pressure
Low temperature, high pressure
High temperature, high pressure
High temperature, low pressure

8. Which of the following favors the formation of SO_3 in the following reaction:



Removal of SO_2
Increase in pressure
Removal of oxygen
Increase in volume
