I. Kinetics

A. Chemical:

B. 

1. Over time, the and the
2. Reaction rate varies with the type of reaction
   a. combustion =
   b. rusting =

II. The Reaction Process

A. :

1. Theory states that reactants must for a reaction to occur.
2. BUT,
3. In order for an (creation of new products) to occur molecules with:
   a. 
   b. the
4. The
5. The minimum amount of is called

(a)

Is this an endothermic or exothermic reaction?

6. 
   a. When the
   b. When the
   c. The activation energy of any reaction is the
III. Factors that Affect Reaction Rates

A. : how complex and reactive the reactants are.

B. :
1. as the
2. This is due to an 
3. Moving = (two birds with one stone!)

C. :
1. as the 
2. = for particles (but )!

D. :
1. Rate increases as the pressure of reactants increases.
2. When pressure increases,
3. If you 
4. This is only true for 

E. :
1. An 
2. 

F. :
1. 
2. in the reaction by 
3. Catalysts 
4. In order to do this, the catalysts create a different pathway. 
5. are the body's catalysts!