## Answer on the question #60123, Chemistry / Physical Chemistry

Question:
8 Rusting of iron Is an example of reaction
Slow
Fast
Moderate
explosive
9 In the reaction: \$2B \rightarrow Product\$; the rate equation is: Rate = k[B]. If the concentration of 'B' is doubled, the rate of reaction will increase by a multiple of Four Two Three None of these

10 Powdered marble reacts more rapidly with HCl than the chips of marble because:

Surface area of powdered marble is more that of chips of marble and hence there is more collisions between the molecules of reactants Number of molecules increases.

Energy of activation decreases

Marble chips will not react with HCl

11 The term — dx/dt in the rate expression refers to the instantaneous rate of the reaction

Average rate of the reaction increase in concentration of the reactants

Change in concentration of the reactants with time

## **Answer:**

- 8. Rusting of iron is an example of slow reaction.
- 9. If the kinetic equation is dx/dt = k[B], then it is logical that if the concentration of B is doubled, the rate of reaction will increase by a multiple of 2..
- 10. Powdered marble reacts more rapidly with HCl than the chips of marble because surface area of powdered marble is more that of chips of marble and hence there is more collisions between the molecules of reactants
- 11. The term dx/dt in the rate expression refers to the instantaneous rate of the reaction.

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