FACTOR AFFECTED RATE OF REACTION

Answer the following question by choosing one correct answer

QUESTION 1

Decomposition of hydrogen peroxide solution was carried out in 2 sets of experiments under different conditions

Set 1: decomposition of hydrogen peroxide

Set 2: decomposition of hydrogen peroxide in the presence of manganese (IV) oxide

- a) What is the factor effect the rate of reaction for set 1 and 2?
 - A. Temperature
 - B. Size of particle
 - C. Concentration
 - D. Catalyst
- b) Determine which reaction have higher rate of reaction?]
 - A. set 1
 - B. set 2

QUESTION 2

set P: Reaction between magnesium powder with 0.5 M nitric acid set Q: Reaction between magnesium coil with 0.5 M nitric acid

- a) What is the factor effect the rate of reaction for set P and Q?
 - A. Temperature
 - B. Size of particle
 - C. Concentration
 - D. catalyst
- b) Determine which reaction have higher rate of reaction?
 - A. set P
 - B. set Q



Complete the table below:

Reaction	Factor	Which one have higher rate of reaction?	Why?	
Q1. Set A 1 gram excess zinc powder + 50cm ³ of 0.10 moldm ⁻³ HCl				
Set B 1 gram of excess zinc powder + 150cm³ of 0.05 moldm⁻³ HCl				
Q2. Set A 1 gram excess zinc powder + 50cm ³ of 0.10 moldm ⁻³ HCl				
Set D 1 gram excess zinc lump + 25 cm ³ of 0.1 moldm ⁻³ HCl				
Q3. Set F 1 gram excess zinc powder + 50cm ³ of 0.10 moldm ⁻³ HCl pada suhu 45°C				
Set G 1 gram excess zinc powder + 50cm ³ of 0.10 moldm ⁻³ HCl pada suhu 55°C				
Q4. Set A 1 gram excess zinc powder + 50cm ³ of 0.10 moldm ⁻³ HCl				
Set D 1 gram excess zinc powder + 50cm ³ of 0.10 moldm ⁻³ HCl + copper metal				

