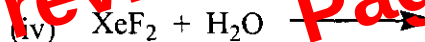
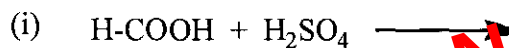


Section C

Question 4

- a. What is the main component in baking powder? How does it function in baking? [3]
- b. The observed ionic mobility or conductivity measurements in aqueous solutions show the following order $\text{Cs}^+ > \text{Rb}^+ > \text{K}^+ > \text{Na}^+ > \text{Li}^+$. Explain why though lithium is the smallest ion in Group 1, it shows the highest conductivity measurements. [6]
- c. Ge(II) is strongly reducing whereas Pb(IV) is strongly oxidizing. Why? [6]
- d. Explain the geometry of ClF_3 using valence bond theory. [6]
- e. Complete the following reaction equations: [6]



[4]