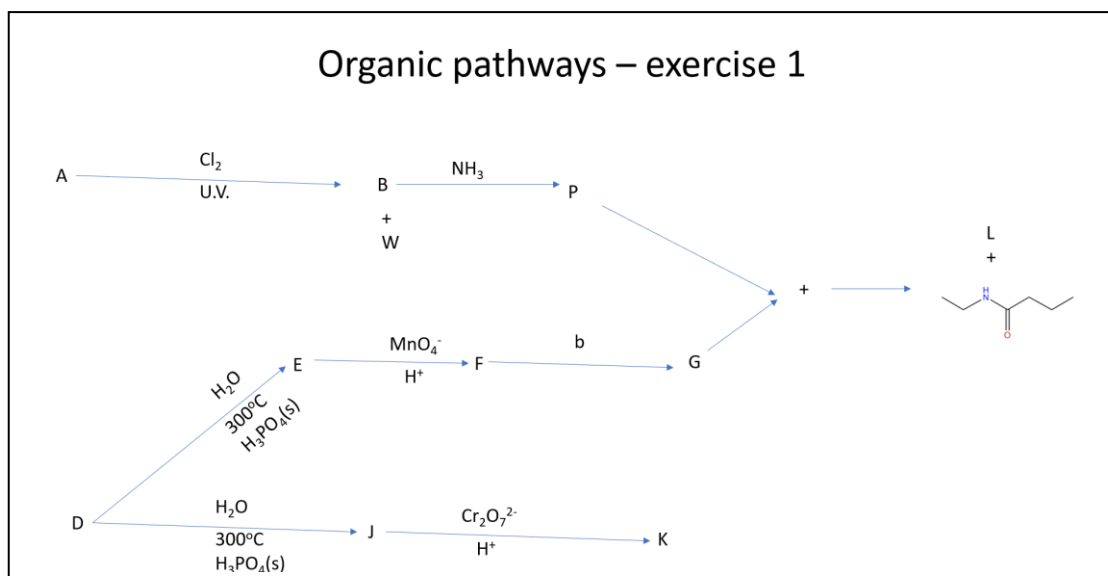


Video worksheet- organic pathways – exercise 1.



- Consider the pathways shown above. Using the pathways shown answer the following questions.
  - Name the following compounds
    - A
    - B
    - C
    - D
    - E
    - F
    - G
    - J
  - Draw the structural formula of K.
    - to what class of compounds does K belong to?
    - to what class of compounds does J belong to?
  - Identify the reagent "b".
  - Identify the type of reaction that:
    - forms E
    - forms J
    - forms K
  - Consider the formation of substance F.
    - Give the oxidation and reduction half equations for the reactions taking place in the formation of substance F given that  $\text{MnO}_4^- (\text{aq}) \rightarrow \text{Mn}^{2+}(\text{aq})$
    - Give the balanced overall equation, states included.