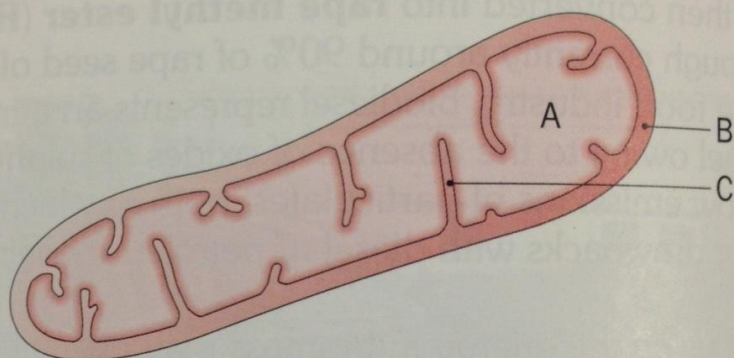


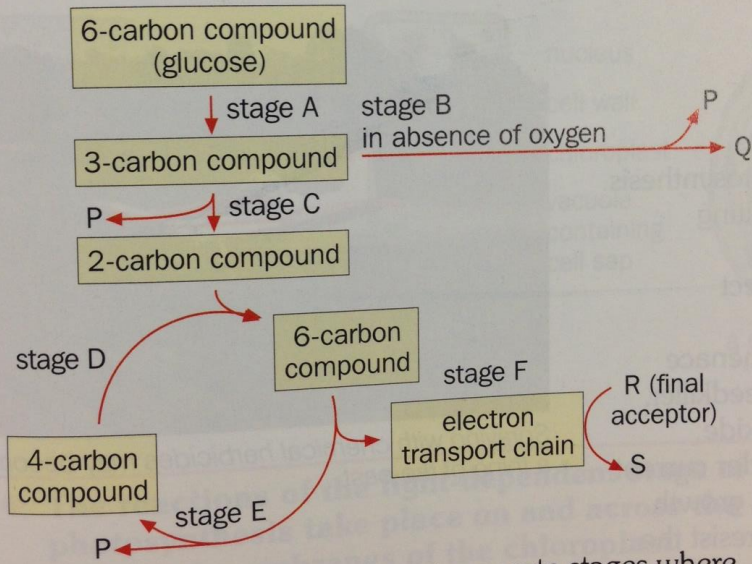
RESPIRATION QUESTION FROM FROGGY – GLYCOLYSIS AND KREBS CYCLE

5 The diagram shows the structure of a mitochondrion.



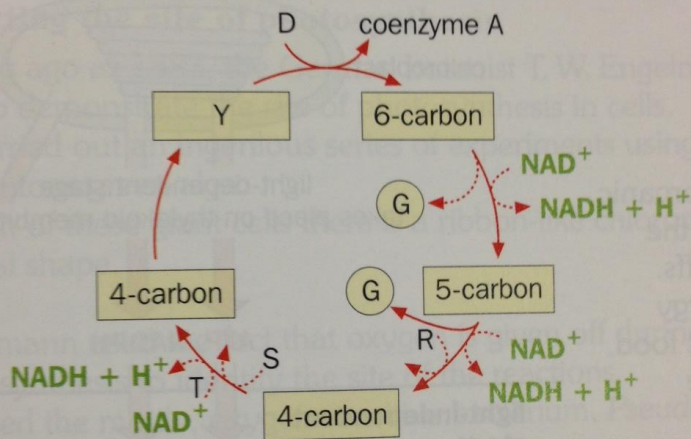
- Name the parts of the organelle indicated by the letters A, B and C.
- Describe where in the mitochondrion
 - the electron transport chain is found,
 - the reactions of Krebs cycle occur.
- List the products formed in Krebs cycle.
- By what process do hydrogen ions flow out of space B into space A?

- 6 The diagram below represents an outline of stages in aerobic respiration.
- Name the compounds represented by P, Q, R and S.
 - Which letter represents the stage at which most ATP is produced?



- Which two letters represent separate stages where ATP is not produced?
- Indicate the nature of the reactions in stage F.

- 7 The diagram shows the series of reactions that take place in Krebs cycle.



- Where exactly in the cell do these reactions take place?
- Give the general name for reactions such as T.
- Name the compounds labelled D and G.
- Write down the equations for the reactions labelled R and S.

How many carbon atoms are found in compound Y?
Describe the role of $\text{NADH} + \text{H}^+$ in respiration.