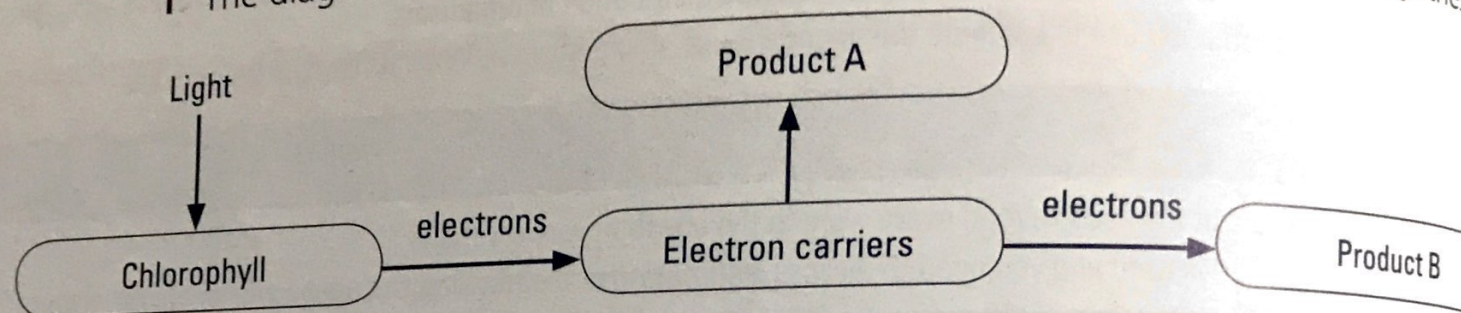


1 The diagram below summarises the light-dependent reactions of photosynthesis



- Give the precise location within a chloroplast where this sequence of reactions occurs.
- Give the names of product A and product B.
- Give the name of the process that provides electrons to replace those lost by chlorophyll.
- A chemical called atrazine prevents the flow of electrons to the electron carriers. Describe and explain the likely effect of atrazine on the production of carbohydrate in a chloroplast.

Total 9 marks

## Unit 4: Topic 5

- (a) 1. thylakoid/granum;  
2. membrane; 2
- (b) A ATP;  
B reduced NADP/eq; 2
- (c) photolysis; 1
- (d) 1. less carbohydrate production;  
2. less reduced NADP;  
3. less reduction of carbon dioxide;  
4. less ATP (to supply energy);  
5. less conversion of GP to GALP; 4

**Total 9 marks**