



Factors Affecting the Rate of Photosynthesis

1 Discuss how the level of chlorophyll affects plant growth, and why the level of chlorophyll may vary

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[4 marks]

2 Name three factors other than chlorophyll that affect the rate of photosynthesis

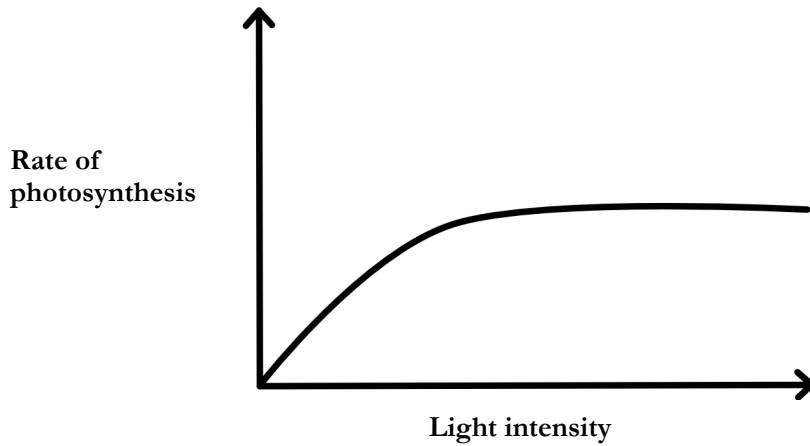
1)

2)

3)

[3 marks]

3 Describe and explain the shape of the below curve



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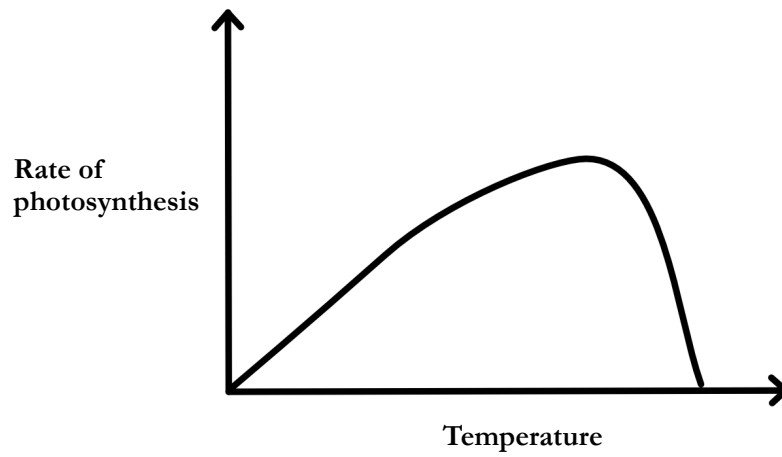
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[4 marks]

5 Describe and explain the shape of the below curve



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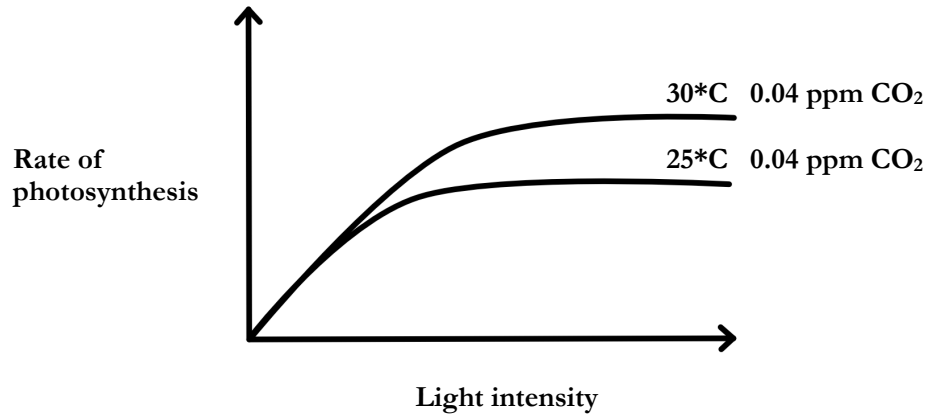
[4 marks]

End here if foundation tier

[Total 15 marks]

Higher Tier

6 What is the limiting factor in the bottom curve of the below graph? Explain your answer



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[3 marks]

7 A farmer wants to grow tomatoes plants in northern England. Discuss how he could control the environment of his tomato crops to ensure that he gets a good yield (lots of tomatoes).

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[6 marks]

8 Controlling the tomato plants environment did increase the yield, but it also increased the cost. How could the farmer decide if the new expenses were worthwhile?

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[2 marks]

[Total 26 marks]