

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Rate of Photosynthesis Questions

Name:

M M E

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Total Marks: /20

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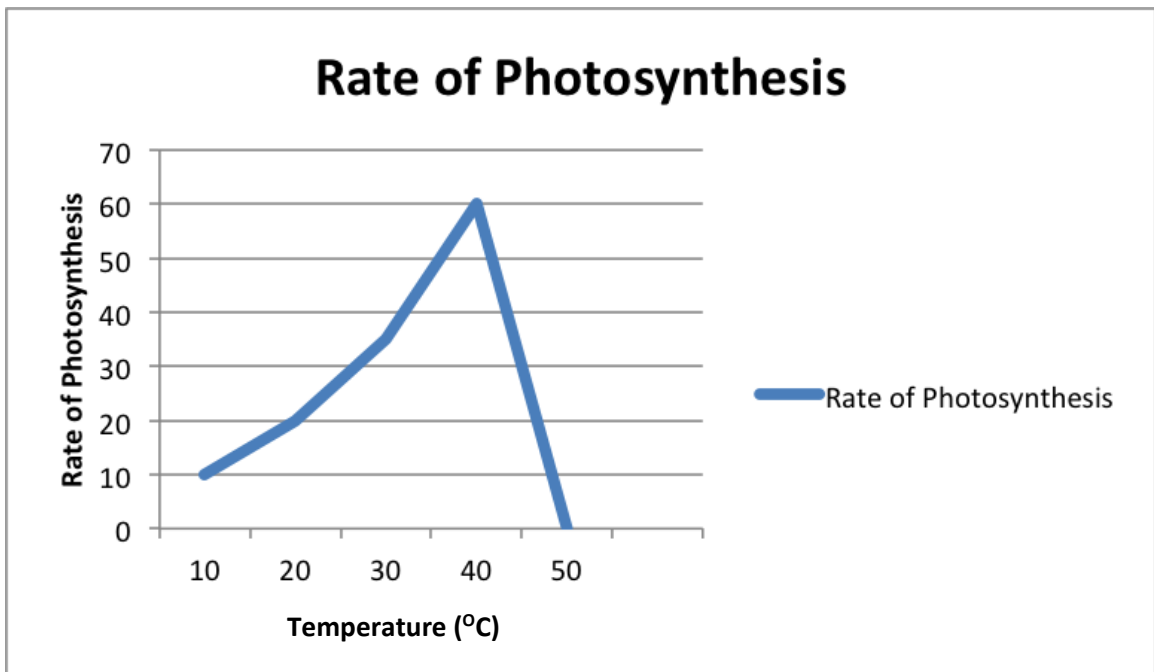
Q1: Give 3 limiting factors to the rate of photosynthesis.

(3 marks)

Q2: Discuss how light intensity affects the rate of photosynthesis.

(3 marks)

Q3: The graph below shows a plant's rate of photosynthesis. Discuss the results shown in the graph.



(3 marks)

Q4: Why does a plant not photosynthesise at night despite higher carbon dioxide levels at night?

_____ (1 mark)

Q5: Explain how farmers can overcome carbon dioxide as a limiting factor.

_____ (2 marks)

Q6: Explain which limiting factors slow a plant's growth.

_____ (2 marks)

Q7: Explain why variegated leafed plants grow more slowly.

_____ (2 marks)

Q8: i) An experiment has been designed to measure the rate of photosynthesis and light intensity. The results below show that the rate of photosynthesis did not change after a certain point. Explain why.

_____ (1 mark)

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ii) The results from the experiment are shown below. Plot a line graph to show these results.

| | Light intensity (cm) | | | | | |
|-----------------------|----------------------|----|----|----|----|----|
| | 10 | 20 | 30 | 40 | 50 | 60 |
| Rate of Photsynthesis | 5 | 20 | 55 | 80 | 80 | 80 |

(3 marks)