

Photosynthesis & Mineral Nutrition

Question Paper

Level	O Level
Subject	Biology
Exam Board	Cambridge International Examinations
Topic	Plant Nutrition
Sub Topic	Photosynthesis & Mineral Nutrition
Booklet	Question Paper 2

Time Allowed: 6 minutes

Score: /5

Percentage: /100

1 In which conditions will a plant photosynthesise fastest?

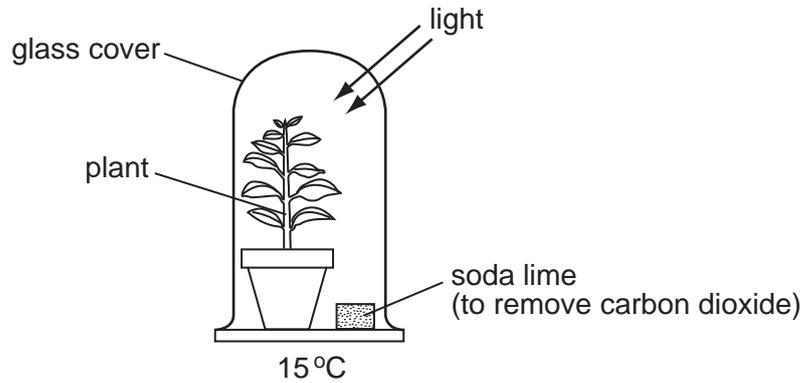
	carbon dioxide concentration/%	temperature /°C
A	0.04	15
B	0.04	25
C	0.01	15
D	0.01	25

2 A young plant may wilt when dug up and re-planted in another place.

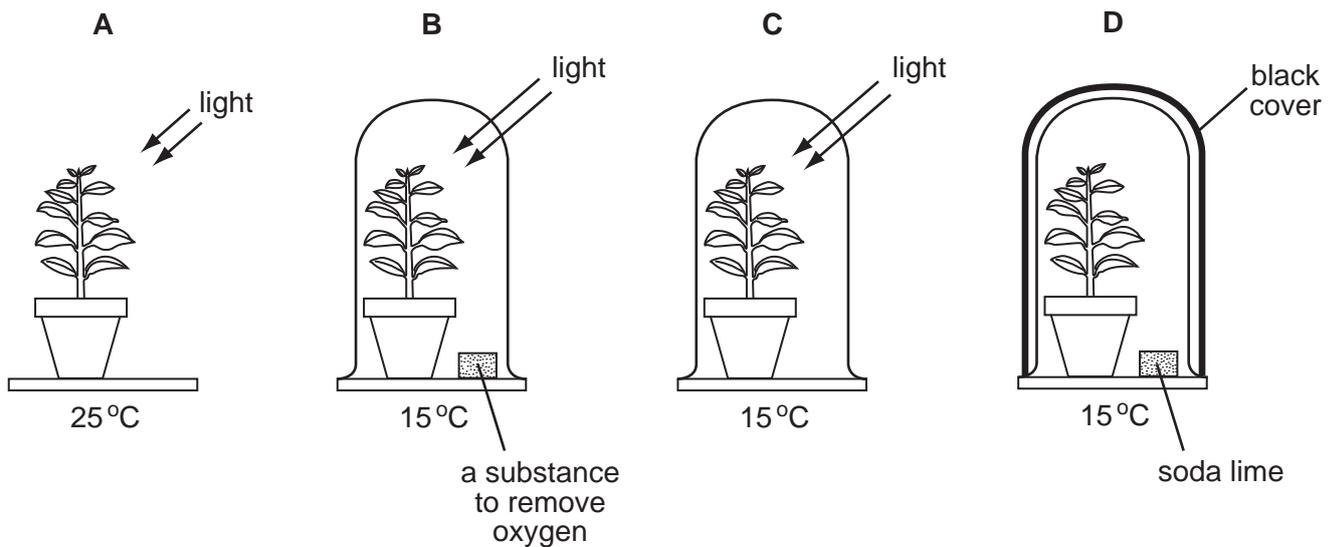
What causes this?

- A** The leaves lose less water.
- B** The roots cannot take up mineral salts.
- C** The stem cannot transport water.
- D** The surface area of the root is reduced.

- 3 The diagram shows an experiment to find out whether carbon dioxide is needed for photosynthesis.

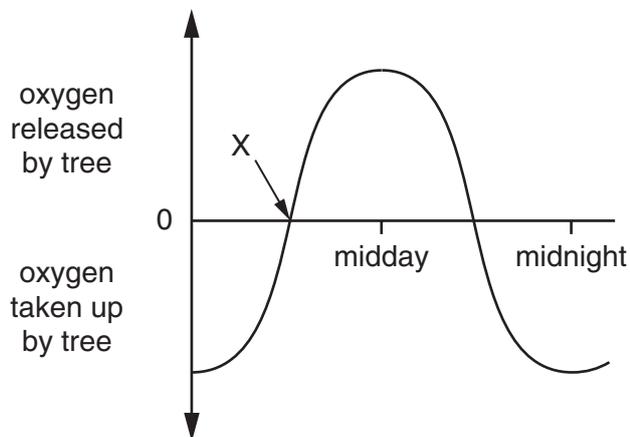


What is the most suitable control for this experiment?



- 4 What is the function of chlorophyll?
- A to convert light energy to chemical energy
 - B to release energy from carbohydrates
 - C to store magnesium ions
 - D to store raw materials for photosynthesis

- 5 The graph shows the oxygen released and taken up by a tree during a 24 hour period.



Which statement describes the situation at point X?

- A Respiration begins.
- B Photosynthesis stops.
- C The rate of respiration is equal to the rate of photosynthesis.
- D The rate of respiration is greater than the rate of photosynthesis.