

WANYANGE GIRLS' SECONDARY SCHOOL S 4 BIOLOGY EXERCISE 05/05/2020

Data based question

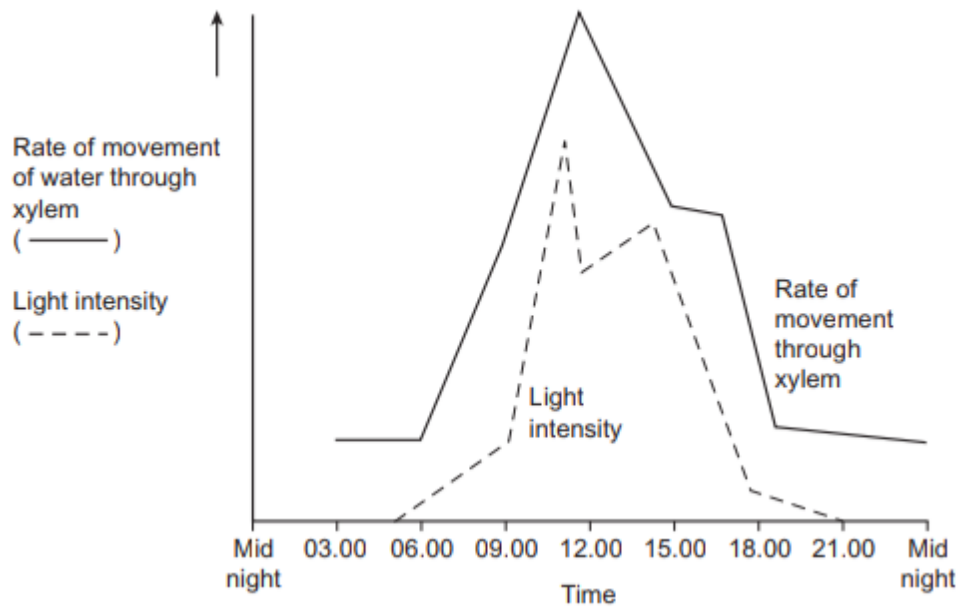
1. The table below shows the rate of transpiration of a plant growing in a pot under different environmental conditions.

Environmental conditions	Temperature	Rate of transpiration
A still air	15°C	1.2
B moving air	15°C	1.7
C still air	25°C	2.3

(a) Suggest an explanation for the difference in transpiration rate between environmental conditions

- (i) A and B
- (ii) A and C

The graph below shows the rates of water movement through the xylem of a twig from a tree and light intensity over a 24-hour period. Study the figure and answer the questions that follow.



- (i). Describe the relationship between the rate of water movement through the xylem and light intensity.
- (ii) Explain the changes in the rate of water movement through the xylem over the 24-hour period.