(b)	At the <u>high</u> light intensity, which experimental factor, light temperature, is effectively controlling the rate at which the photosynthesise? Explain your answer.	plant	may marks)
(c)	Summarise the relationship between rate of photosynthesis and	temper	ature
	at the <u>low</u> light intensity.		mark)
(d)	At the <u>low</u> light intensity, which experimental factor, light o temperature, is effectively controlling the rate at which the photosynthesise? Explain your answer.	plant r	may marks)

(e)	At	t the low light intensity, what would be the effect of d	loubling the level
	of	f atmospheric carbon dioxide during the experiment? Exp	lain your answer.
			(2 marks)

(f) At <u>both</u> light intensities, the rate of photosynthesis <u>decreases</u> at higher temperatures. How can you explain this?

(2 marks)

Question 2 (15 marks)

In Indonesia, a population of fowl was sampled when an area was being cleared for an oil palm plantation. All individuals in the area were collected, sexed and weighed. The individual weights were then organised into weight classes and the data is shown below.

	NUMBERS OF FOWL WEIGHING:									
	up to 100 g	101- 200 g	201- 300 g	301- 400 g	401- 500 g	501- 600 g	601- 700 g	701- 800 g	801- 900 g	more than 900 g
Males	150	91	73	60	55	50	50	10	8	5
Females	141	95	69	71	65	45	40	39	30	1

Table showing the number of individuals in ten different weight ranges in an Indonesian fowl population

- (a) Showing males and females <u>separately</u>, but on the same piece of paper, plot a histogram (bar graph) showing the number of individuals in each weight class. (Plot weight classes on the horizontal axis and number of individuals on the vertical axis).

 (4 marks)
- (b) Explain the decline in the numbers of birds as they get heavier.

 (1 mark)

(c) Calculate and explain the ratio of males to females weighing up to 100g. (2 marks)