

**Question 22** (6 marks)

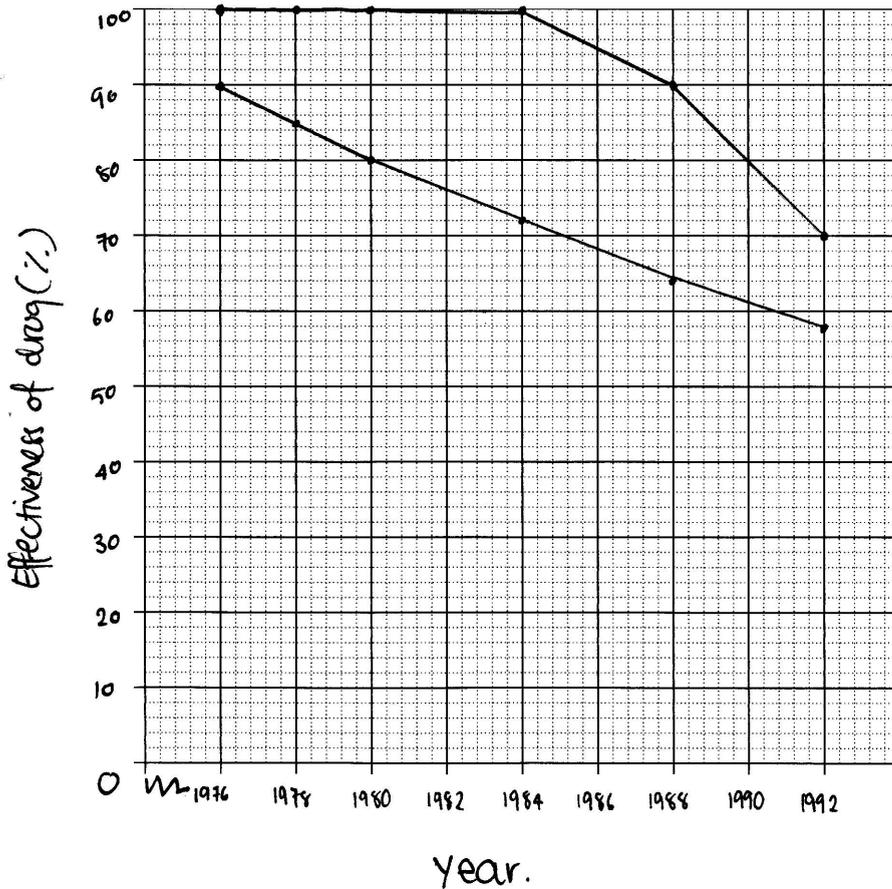
The following data were recorded about the effectiveness of antimalarial drugs for treating malaria.

Year	Effectiveness of drug (%)	
	Mefloquine	Quinine
1976	100	90
1978	100	85
1980	100	80
1984	100	72
1988	90	64
1992	70	58

(a) Graph the data on the grid.

Graph showing effectiveness of antimalarial drugs over a period of time.

3



KEY

— = Mefloquine  
 - - - = Quinine

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Question 22 (continued)

- (b) Use these data to explain the impact of human processes on biodiversity.

3

By observing the data we can see that the effectiveness of worm  
drugs decreases as time goes on. Therefore we can conclude  
that the human process of immunity takes place, where  
these drugs become ineffective because the human body  
becomes immune to the drug, thus impacting the bio-  
diversity.

**End of Question 22**