

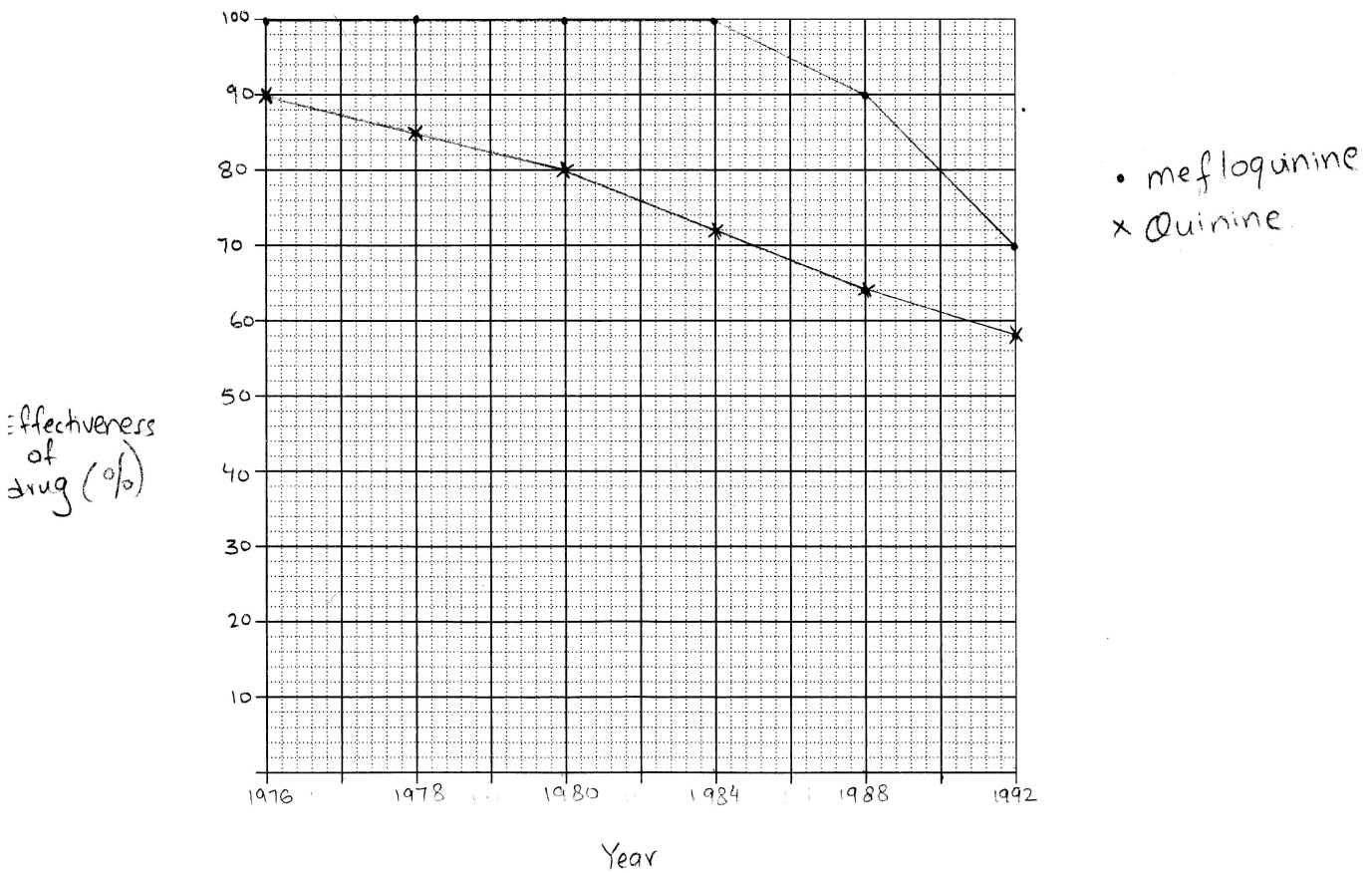
**Question 22** (6 marks)

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.

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Question 22 continues on page 11

Question 22 (continued)

- (b) Use these data to explain the impact of human processes on biodiversity. 3

Humans have produced drugs that ~~had~~ were ~~not~~ effective over a period of time. Soon these drugs were not effective due to the malaria's that had ~~become~~ <sup>been</sup> resistant to it. These malaria's then reproduced passing their genetics off to their offsprings who ~~also~~ <sup>were</sup> also resistant to the drug Quinine because of which the effectiveness of the drug reduced. However mefloquine was effective but the malaria's ~~that~~ <sup>soon began</sup> ~~were~~ resistant reproduced and there was a sudden decrease of the effectiveness of mefloquine from 100 to 70.

End of Question 22