

Malaria

Model Exam Question

Malaria is a major human disease, which is one of the most destructive in terms of its effect on health and human mortality. The vector for Plasmodium sp. the organism which causes malaria is the female Anopheles mosquito.

a) What is meant by the term vector?

b) Malaria was once common in south-east England. Give a reason why malaria has now died out in this area.

c) What feature of the mosquito's feeding allows the parasite to gain entry to the human host?

d) Give four methods which can be used to control the spread of malaria.

- i)

- ii)

- iii)

- iv)



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e) Suggest two problems associated with the use of chemicals to control mosquitos

i) _____

ii) _____

f) To control the spread of malaria it is only necessary to reduce the numbers of Anophele mosquitos to a critical density. This is defined as the numbers of mosquitos below which there is a reduction in the incidence of the disease.
Suggest two factors which will affect the size of the critical density.

i) _____

ii) _____

