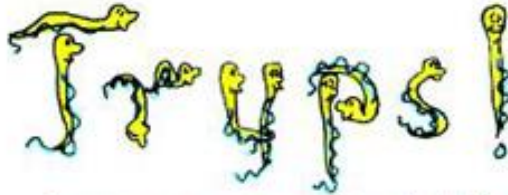


## 1 Caution!



Trypanosomes are organisms that infest the blood of vertebrates, and are usually transmitted by the bite of an insect.

## 2

Trypanosomes which look completely harmless...



are actually pathogens of man and animals.

## 3



The trypanosomes are so successful because of frequent changes of their antigenic coats. Antigenic - A chemical capable of causing an immune response.

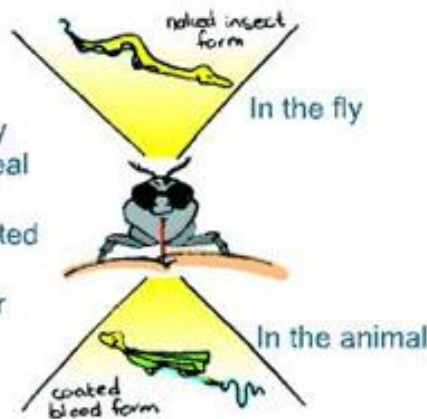
## 4



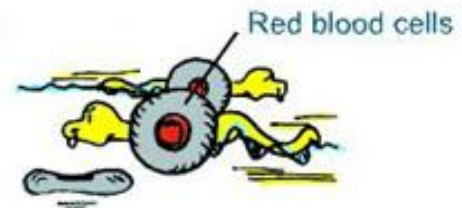
Therefore, an extensive wardrobe of different coat types is indispensable equipment for them.

## 5

When a tsetse fly takes a blood meal from an infected animal, the ingested trypanosomes rapidly shed their coats.

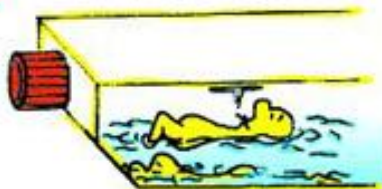


## 6



Injected back into their hosts's blood, these **causative** agents of sleeping sickness are ruthless. **Delete text in red box**

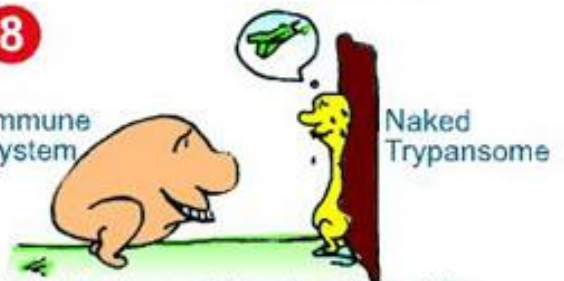
## 7



But many lead a more cultured life in research laboratories.

## 8

Immune system



Investigations of the shedding of the surface coat may lead to successful chemotherapy because naked trypanosomes are destroyed by the host's immune defence.

Chemotherapy - Use of chemicals in the treatment or control of a disease.