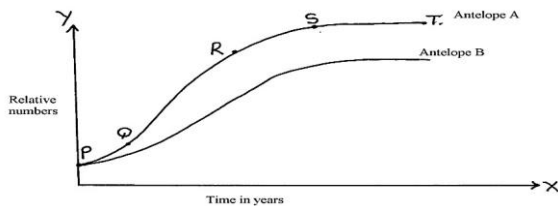




23. Describe nitrogen cycle.

24. Two species of antelopes were introduced into an ecosystem at the same time in equal numbers. The graphs below show their relative numbers during the first eight years of their co-existence. Study the graphs carefully and answer the questions that follow.



- a) i) Which species of antelope has better survival adaptations.  
 ii) Give a reason for your answer above.
- b) i) Name the type of curves shown.  
 ii) Name the phases labelled. PQ ..... QR ..... RS ..... ST ...
- c) Explain the shape of the curve for the species of Antelope A between  
 i) Q and R.            ii) S and T.
- d) i) State the type of competition shown by the two species of antelopes.
- ii) State any **two** symptoms of intraspecific competition in plants.  
 e) i) What is meant by competitive exclusion
- ii) Suggest how the species B avoid competitive exclusion.

State any **three** adaptations that enable the antelopes to overcome predation.

- f) State any **two** possible methods by which populations of the two antelopes' species were determined.
25. Describe various human diseases in terms of; name of causative agent, mode of transmission, effects,

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