

Marks

Question 27 (8 marks)

Evaluate the contributions made by both Louis Pasteur and Robert Koch to our present understanding of the causes and possible prevention of infectious diseases.

8

Robert Koch - discovered anthrax in cattle, as well as tuberculosis. They made contributions so that today we could have vaccines for prevention of infectious diseases such as bacteria.

~~They tested on 1 species~~ ^{organism}

They figured out by experimenting & implanting diseases into organisms before they were infected, the organism could build up an immune response to the disease, so when they were infected the antigen could be detected as the body would recognise the foreign body from before & act quicker as it knows what it is.

They can then develop vaccines from this to help organisms that couldn't fight the disease fight it. This research has led to many cures of diseases over the years. They also discovered that bacteria was a pathogen, as well as prions.