

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

Louis Pasteur disproved the theory of spontaneous generation on ~~the~~ pathogens. He showed that micro-organisms in infectious disease did not just appear but came from pre-existing organisms (eg. maggots). Koch came up with a theory to ~~show~~ that ~~infectious diseases target~~ which is the bacteria which is causing the disease, called Koch's postulate
~~1. from the infected host contains the suspected organisms~~

~~2. obtain the pure culture~~

1. A pure culture must be contained from the infected ~~host~~ suspected organism

2. The pure culture obtained must be infected into another host

3. The 2nd infected host must have the symptoms

4. It is then isolated and observed to see if the infection is the same as the original host.