Marks

Question 27 (8 marks)

Evaluate the contributions made by both Louis Pasteur and Robert Koch to our present 8 understanding of the causes and possible prevention of infectious diseases. Pastern prexed that the theory of apontaneous feneration was not true. Pasteur performed an experiment with 2 placks, are open to the air, the other with an S. shaped bend in it. The flast open to the air directly, the brath inside spoiled. The S-slaped one the buth did not spoil, showing pathogens in the air cause thing s to spoil. This led to sanitation in medical operations. He also did an experiment on sleep immunicing some and thenging exting the whole herd with a letter dose; Hose who had been immunised survived. This slowed the value of immunisation against infectious diseases. Robert Koch created postulates for identifying the organism causing an infections disease organism present in them.

1. All'organisms must have the same organisms. 2. Pure culture taken from infected organism and solated (of the suspected organism/cause) 3. Pure culture injected into non-infected species
Suspect
4. **Organism re-cultured from newly injected organism. 5. New culture compared to the original. If not the cause then process started again with He isolation of a new suspect organism.