Q:→ What is monoclonal antibody? What are the applications?

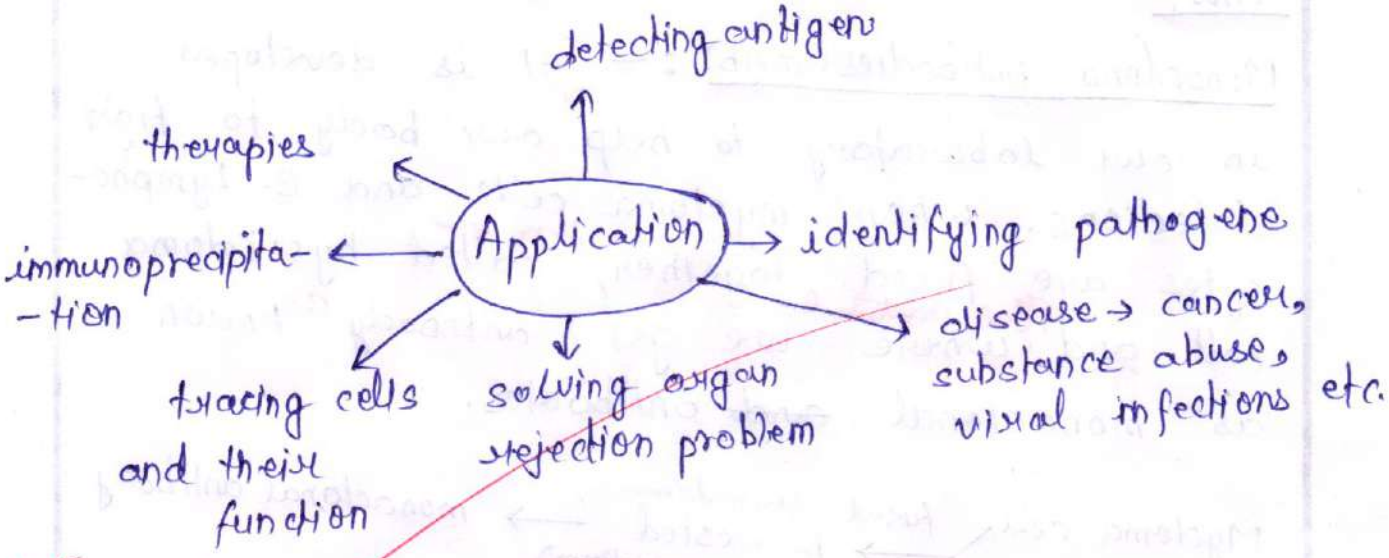
Ans:-

Monoclonal Antibodies (mAb) :- It is developed in our laboratory to help our body to fight infections. When mycloma cells and B-Lymphocytes are fused together, they are called hybridoma cell. ~~and~~ The Antibody ~~where~~ we get antibody are known as monoclonal ~~and~~ antibodies.

Mycloma cell, B-lymphocyt → fused → (Hybridoma) harvested (culture medium) → monoclonal antibody

Applications :- It is used in many diseases such as asthma, cancer, substance abuse, viral infections etc. Used in immunoprecipitation. In 2021, the monoclonal antibody therapies have been found to reduce the number of hospitalisation, emergency room visits, deaths. mAbs can be used to detect antigense in fixed tissue section. Used in identifying pathogene. mAb named OKT3 is able to decrease the effect of organ rejection. It used in tracing cells and their function. It is also involve in pregnancy

test kits.



Fair
Lymphocytes