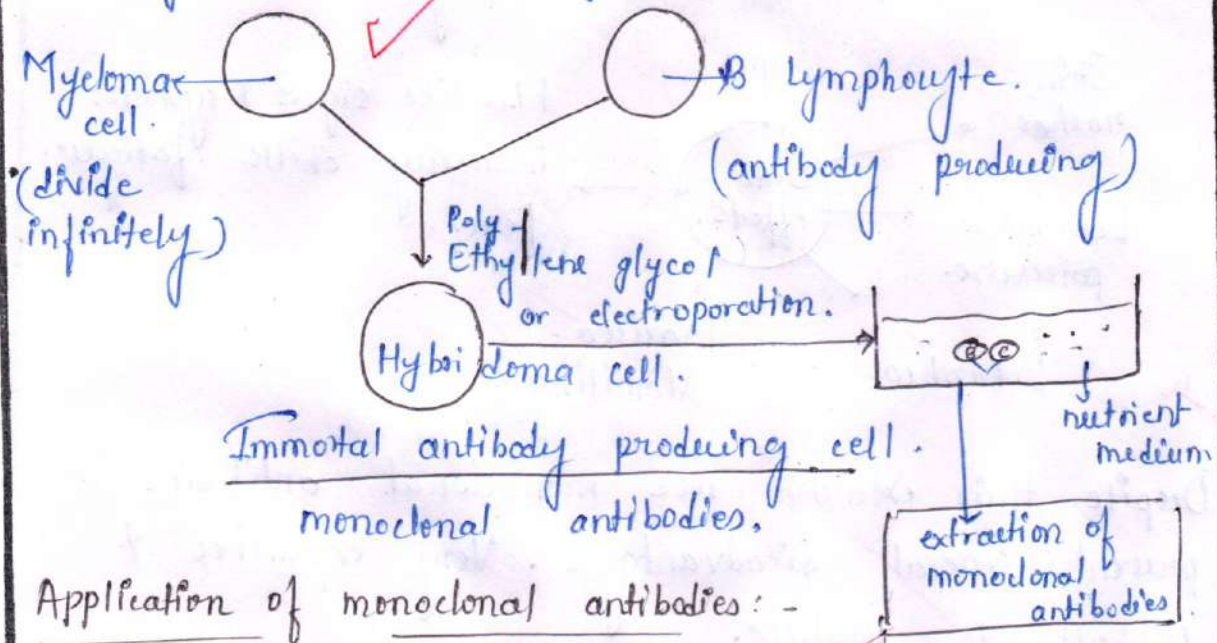


Q. What are monoclonal antibodies write its application & side effects?

Monoclonal antibodies :-

Monoclonal antibodies are laboratory produced proteins made by cloning a unique white blood cell.

It is formed by fusing  $\beta$ -lymphocyte (antibody producing cells) and myeloma cell (cancerous cells).



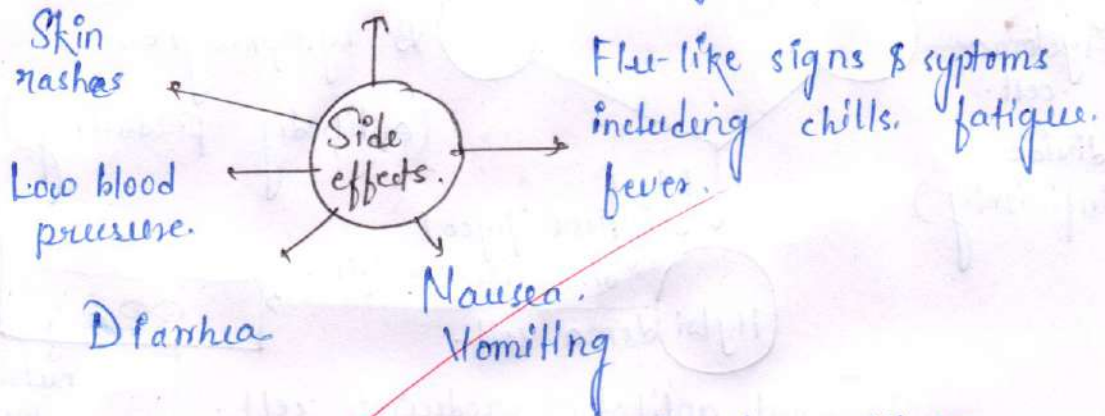
Application of monoclonal antibodies :-

- Use in treatment of asthma, autoimmune disorder, viral infection, poisoning.
- To treat condition like cancer by carrying drug directly to the tumour cell and helping the immune system attack them.
- Testing for pregnancy by detecting HCG hormone in urine.
- Testing of diseases such as herpes & HIV.

Therapeutic uses blocking of targeted molecule functions including apoptosis in cells.  
Analytic & chemical use (to purify target compounds)

Side effects:-

Allergic reaction  
Such as hives or itching.



*fairly  
big*

Despite their extensive use monoclonal antibodies present several disadvantage. Very expensive & difficult to produce.