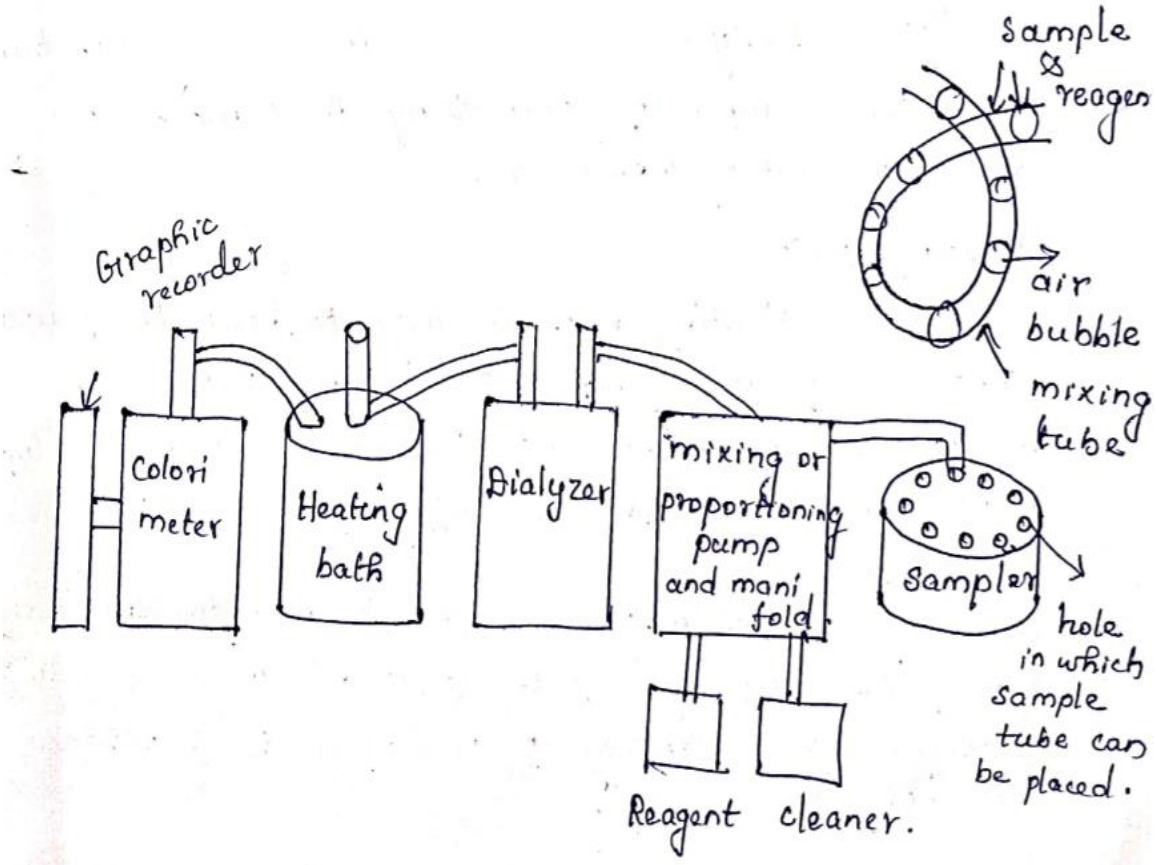
AUTO ANALYZER

Auto analyser is used to measure blood chemistry and display that on a graphic recorder.



Sampler:

Samples are feeded to the analyzer using the sampler. Upto 128 samples can be placed in the sampler. Sampler contains holes in which sample tubes are placed.

Mixing or proportioning pump:

Proportioning pump is the heart of the auto analyzer. Proportioning pump works on a sample tube simultaneously. Samples are mixed with the reagents to give proper chemical colour reaction, which can be read by colorimeter. The air segmentation in the mixing tube separates the sample. It also pumps fluids to another modules.

Dialyzer:

Dialyzer separates interfacing substance from the sample by permitting the sample through a semipermeable membrane.

Heating Path:

Heating path is used to heat the fluids continuously exactly at 37^{o}C temperature. This module is very important because colour development depends temperature also.

Colorimeter:

Colorimeter is used to monitor the changes in optical density of the fluid. It measures colour density. Colour density proportional to substance concentration.

Graphic recorder:

Graphic recorder is used to convert the electric signal into a graphic display.