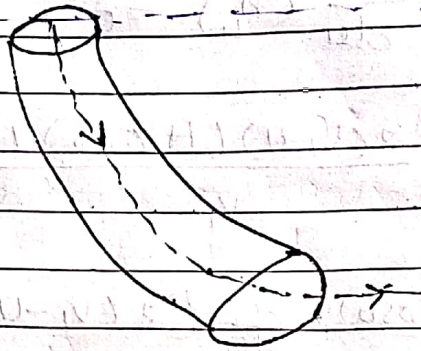


## Section-3

Q.

Draft tube  $\rightarrow$  it is a pipe of gradually increasing area which connects the outlet runner to the tail race.

it is used for discharging water from the exit of the turbine to the tail race.



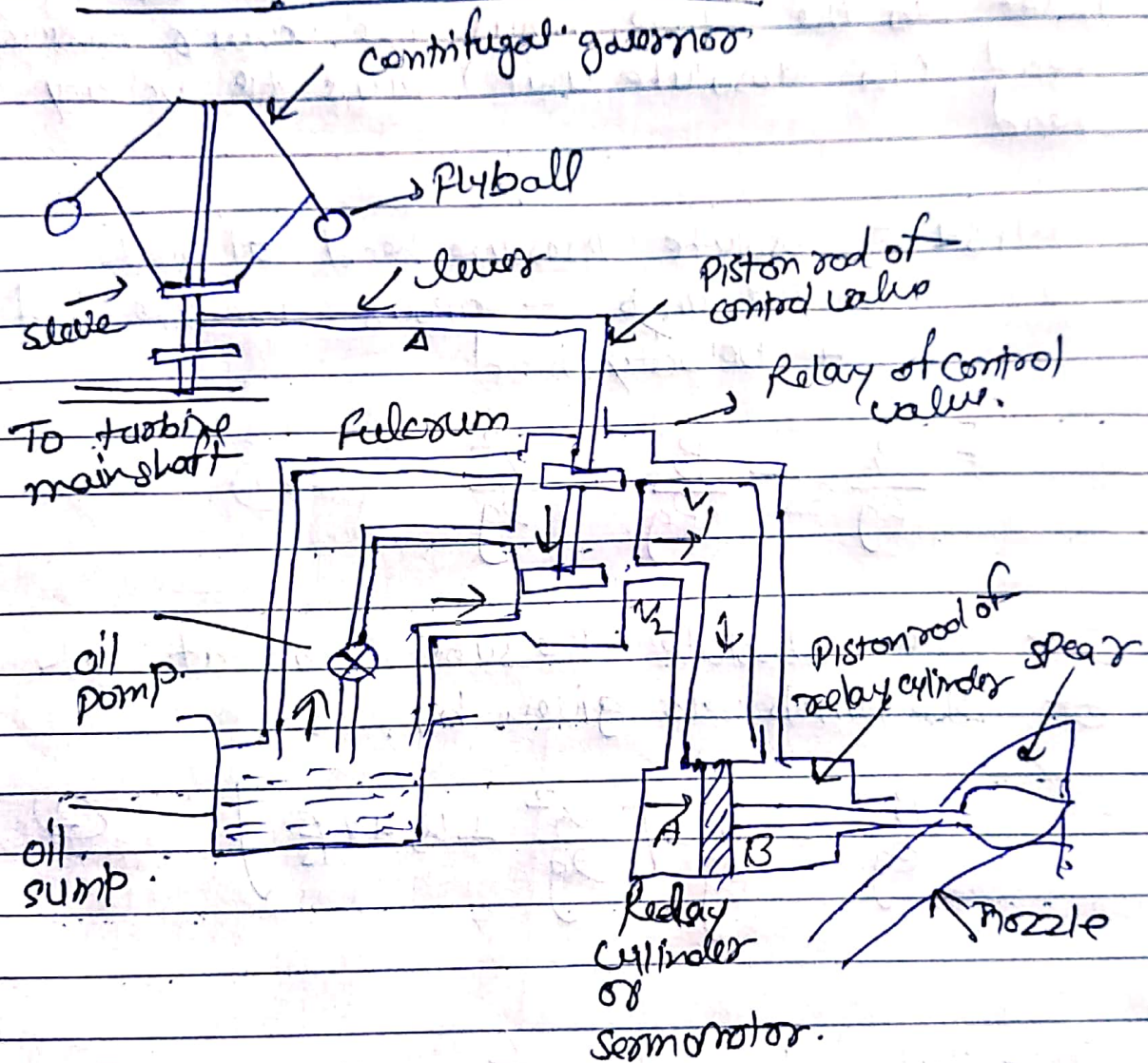
simple elbow tube.

Function of draft tube  $\rightarrow$  It permits a negative head to be established at the outlet of the runner and thereby increasing the net head on turbine the turbine may be placed above the tail race without any loss of net head and hence turbine may be increased inspected properly.

2) It converts a large proportion of kinetic energy rejected at the outlet of the turbine into useful pressure energy.

Without the draft tube the kinetic energy rejected at the outlet of the turbine will go waste to the tail race.

### Governing of Pelton wheel.



① When the load on the generator decreases the speed of generator and hence the turbine increases beyond normal speed.

The fly balls of the centrifugal governor move outwards, due to the increased centrifugal force on them.