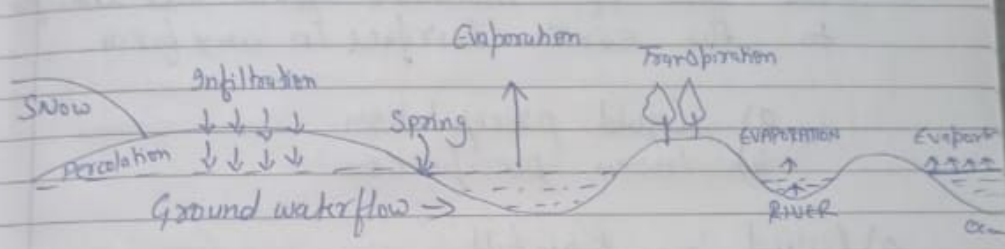
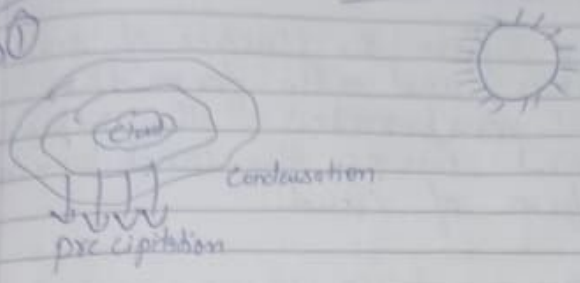


Section 3

SI
Part 1



Hydrological cycle is the process of transfer of moisture from the atmosphere to the earth in the form of precipitation. Conveyance of the precipitated water by stream and river to oceans and lakes etc. and evaporation of water back to the atmosphere as shown in figure.

① Evaporation and Transpiration

→ The water from the surface of ocean, River, lakes and also from the moist soil evaporates. The vapours are carried over the land by air in the form of cloud.

② Precipitation

The fall of moisture from the atmosphere to the earth surface in any form.

- a) Liquid precipitation
- b) Frozen precipitation.

- a) Liquid :- Rainfall
- b) FROZEN:- SNOW, HAIL, SLEET, FREEZING RAIN-

③ Run off

Run off is that portion of precipitation that is not ~~to~~ evaporated, ~~when moisture~~

④ Surface RUN OFF

Water flows over the land is first to reach the streams and rivers which ultimately discharge the water to the sea.

(ii) Infiltration flow or sub surface flow

⇒ A portion of precipitation infiltrate into surface soil and depending upon the geology of the basin, runs as sub-surface runoff and reaches the stream and river.

(iii) Ground water flow

$$\text{Precipitation (P)} = \text{Evaporation} + \text{Runoff (R)}$$