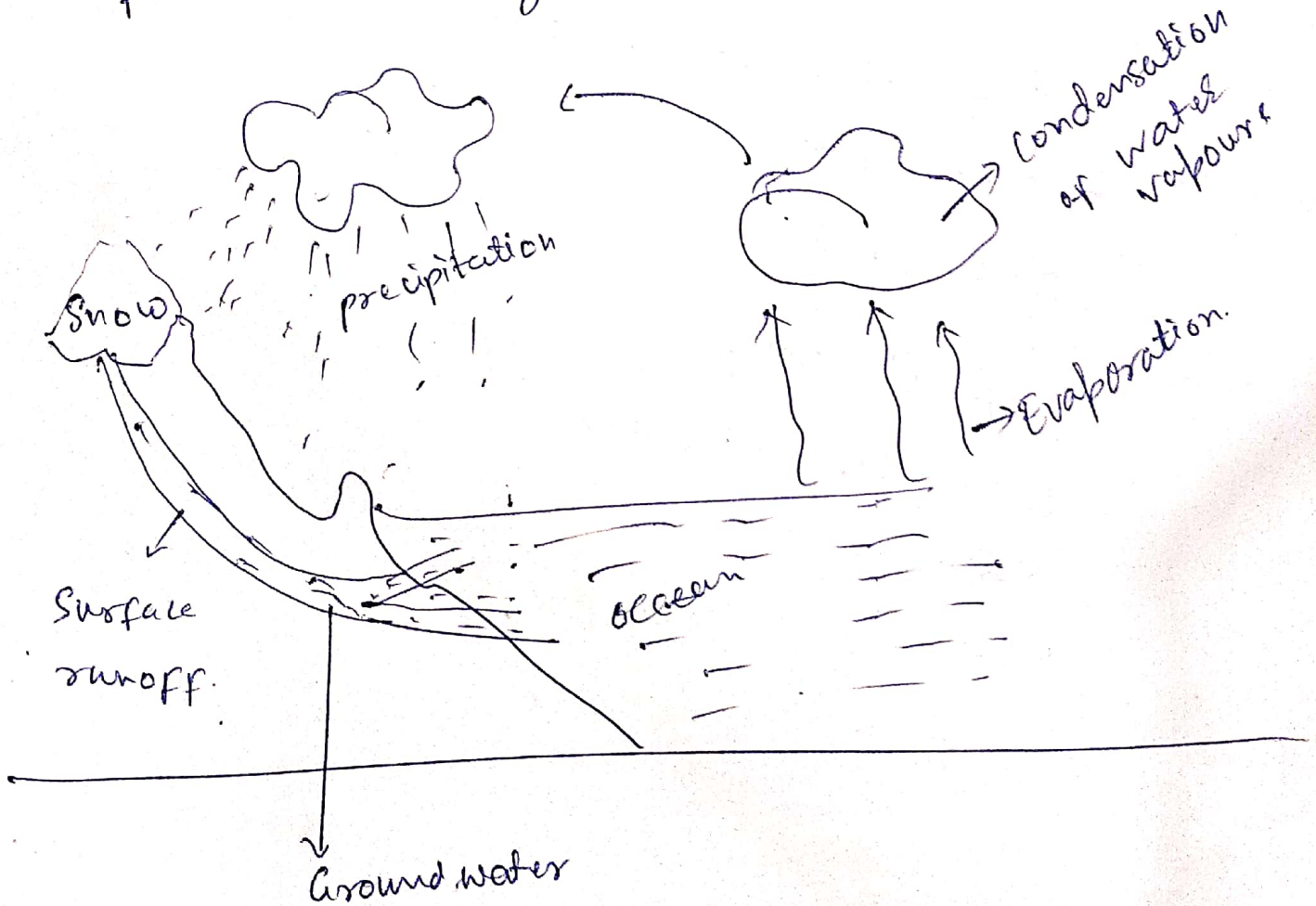


SECTION-3

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Ques-1. Hydrological Cycle:

The sun, which drives the water cycle, heats water in oceans & seas. Water evaporates as water vapour into the air. When the water vapour rises, it starts cooling. The water vapour condenses causing the formation of droplets of water. Clouds are just masses of such water droplets. When these droplets of water become too heavy to float in air, they come down as precipitation.



SECTION-3

am. 1.

→ Equation of Hydrology:

$$S = P - E - R_o - R_u$$

where,

S → Rate of storage of water

P → precipitation rate (Liquid & solid phase).

E → Evaporation rate.

R_o - Surface runoff.

R_u - Subterranean runoff.

→ water balance equation:

$$P = R + E + \Delta S$$

where,

P → precipitation.

E → Evapotranspiration

R → Streamflow

ΔS → change in storage.