

## HYDROLOGY

### HYDROLOGIC CYCLE

The water cycle, or hydrologic cycle, is a continuous process by which water is purified by evaporation and transported from the earth's surface (including the oceans) to the atmosphere and back to the land and oceans.

### GROUND WATER

- Ground water comprises the subsurface water that occurs within the **saturated zone of the earth's surface**, or within the part of the earth's crust where all openings are filled with water.
- It is distinguished from water on and above the earth's crust, and from water occurring below the ground surface but above the saturated zone (or occurring within the unsaturated zone).



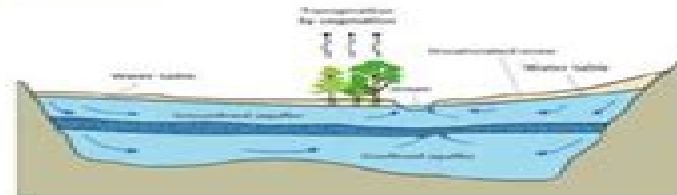
- The volume of water stored in the rocks of the world's land areas may be on the order of **8 billion km<sup>3</sup>**, of which half is at depths **less than 800 m**.
- This volume is about **35 times the combined storage of all the world's rivers, fresh water lakes, reservoirs, and in land seas**, and is about **one-third the volume of water stored in arctic and Antarctic ice fields**, in the glaciers of Greenland and great mountain systems of the world.
- Despite its magnitude, **most ground water is not visible** because it is stored **below the earth's surface**.
- However, a small percentage of this underground supply is **visible as naturally-discharging springs**, or as streams and rivers which are sustained by ground water when direct runoff from precipitation ceases.
- This lack of visibility tends to **promote some mysticism about ground water** and a disregard for the need to protect it from pollution. • **Ground water is not mystic**, and it **does need protection**. While ground water

is a resource of immense magnitude, **it is not evenly available** and is exhaustible.

- The term **"ground water reservoir"** is widely and loosely used to denote places where **ground water is accumulated under conditions** that make it suitable for development and use.
- There is no standard or generally accepted definition of the term.
- "Ground water basin," "aquifer," "water-bearing zone"(or formation), "ground water district," and "ground water area"

### AQUIFER

- An **aquifer** is the **saturated, permeable, geological formation or group of formations** which **contains, transmits, and yields** significant quantity of water.
- The **flow** in the aquifer is **mainly horizontal**, and the **source of water** is mainly through **infiltration**.



**AQUIFERS CAN BE CLASSIFIED AS:** **UCS**

- confined aquifer
- semi-confined aquifer, and
- unconfined aquifer.

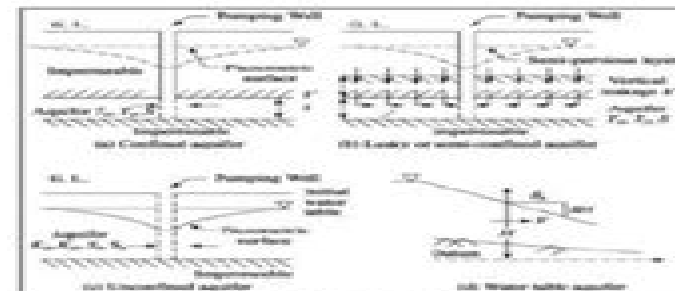


Fig. 8.4 Different types of aquifer

# Pdf Hydrology And Groundwater Notes Testmasters Learn Civil 49083

**SAXENA, R.N.,GUPTA, D.C.**



**Pdf Hydrology And Groundwater Notes Testmasters Learn Civil 49083:**

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