



ROMBLON STATE UNIVERSITY  
College of Engineering and Technology  
Department of Civil Engineering



CE 315 – HYDROLOGY  
1st Semester SY 2020-2021

---

ASSIGNMENT # 6  
INFILTRATION AND GROUNDWATER  
(E-book Reference: Concise Hydrology, Dawei, H.)

**DUE DATE: ON OR BEFORE 03 November 2020 (TUESDAY), 5:00PM**

**NOTE: This homework should be written in the notebook. DO NOT COPY – SUMMARIZE YOUR ANSWERS. ONLY WRITE down the key words/phrases only. Maximum two (2) pages of your notebook. Exceeding two pages of notebook will receive point deduction. Write clearly!**

Answer the following questions:

1. Define the following terms:
  - Porosity
  - Soil moisture content
  - Vadose zone
  - Field Capacity
  - Soil Moisture Deficit
  - Aquifer
  - Water table
  - Aquitard
  - Unconfined aquifer
  - Confined aquifer
  - Artesian aquifer/well
  - Water well
  - Bore hole
  - Piezometric surface
  - Base flow
  - Ground recharge
  - Hydrograph
  - River runoff
2. Compare the characteristics between unconfined groundwater with confined groundwater.
3. Describe the different types of reservoirs.
4. How to derive the height from reservoir storage?
5. How to estimate the required reservoir storage?