Assignment- Questions?

- Differentiate between lumped, semi-distributed, and distributed models used in hydrologic modeling.
- How physically based watershed modeling is done? Illustrate the step by step procedure. What are advantages & limitations.
- What are the important steps in the watershed simulation analysis?
- Illustrate various types of hydrodynamic & empirical models used in hydrology.
For your watershed area, discuss the possibility of applying a physically based model for runoff/ flood analysis. Identify the data required for physical modeling. Develop a conceptual model by giving the detailed steps for rainfall runoff modeling.

Identify how to model evapo-transpiration, interception & infiltration for the area considered. With respect to available data, choose specific models to model these processes.

Discuss how to add these processes in the rainfall-runoff modeling.