# Exam I - Topical Outline Review

## A. The hydrologic cycle

- what is it?what makes it go?

#### B. Hydrologic Abstractions

- identify what they are
  physical vs. systems approaches

#### C. Water Budgets

- an accounting of volumes moving through environment check units and recall that volumes are  $Q \cdot t$  and  $A \cdot d$

### D. Hydrostatics

- fluid properties & heads
- manometers & tank pressure head distributions

## E. Precipitation

- types and forms of precipitation
  adjustment of precipitation data; filling in lost data
- analysis of ppt. distribution; averages, polygon & isohyetal methods

## F. Hydrographs

- streamflow, or discharge vs. time resulting from "effective" rainfall
- UHG analysis; effective rain, or direct runoff corresponding to 1 unit depth over basin
- linearity and superposition used to create hydrographs from UHG.

#### G. Evaporation & ET

- net rate of water vapor transfer to atm.evaporation and ET estimation methods
  - energy balancemass transfer

  - evaporation pan