Check list for oral examination

- 1. Hadley cells and the general circulation patterns
- 2. Global patterns of precipitation
- 3. The hydrology balance
- 4. Watershed delineation, river network terminology
- 5. Raingauges: functioning and errors
- 6. Computation of mean areal rainfall
- 7. Streamgauges: measurement of stream gage level
- 8. Streamgauges: concept of rating curve
- 9. Impact of deforestion, afforestation and reforestation on water budget: effect of climate
- 10. Impact of deforestation, afforestation and reforestation on runoff production during flood events
- 11. Forest hydrology and paired watersheds
- 12. Hortonian and Dunnian processes for the generation of surface runoff
- 13. Soil water and hydraulic characteristics of the soil
- 14. Hydraulic conductivity and the Darcy law
- 15. The structure of the flood hydrograph
- 16. Base flow: concept and identification
- 17. The CN-SCS method for runoff computation
- 18. Land use properties as described in the CN method
- 19. Energy balance, radiation balance and the evapotranspiration fluxes
- 20. Interception as a function of vegetation structure and type: impact on the hydrologic balance
- 21. Potential and actual evapotranspiration
- 22. Main controls on leaf and canopy conductance
- 23. Penman equation for the quantification of evapo-transpiration fluxes
- 24. Pristley-Taylor equation
- 25. Budyko diagram