

Syllabus:

Theory:

Unit1. I) Groundwater Hydrology and its relation to other sciences.

II) Hydrogeological cycle

III) Occurrence and distribution of groundwater

Unit 2. I) Water table and water table maps, piezometric surface.

II) Influent and Affluent seepage and springs.

III) Theory of groundwater flow

IV) Aquifers and their types.

Unit 3. Hydrologic properties of rocks and their definition and methods of determination.(Porosity, permeability, Specific yield, Specific retention, etc)

Unit 4. I) Occurrence of groundwater in different rock types: Igneous, sedimentary and metamorphic rock.

II) Lithological, stratigraphic and structural control of groundwater occurrence.

III) Groundwater provinces of India.

IV) Groundwater conditions in different parts of Maharashtra.

Practical:

I) Study of Topographic survey sheets.

II) Plotting of groundwater provinces of India