

**VIII. Dynamic analysis and stress**

**A. Force and stress**

- a) Units of force
- b) Units of stress

**B. Stress on a plane**

- a) Normal stress
- b) Shear stress

**C. State of stress at a point**

- a) Hydrostatic and Lithostatic stress
- b) Non-hydrostatic and differential stress
- c) Stress axes
- d) Effective stress
- e) Stress regimes

**D. Stress-strain relationships**

- a) Experimental vs. geological strain rates
- b) Elastic
- c) Brittle
- d) Plastic
- e) Viscous
- f) Competence

**IX. Joints**

**A. Character and importance of joints**

**B. Features of joints**

*Orientation and organization*

*Features of joint surfaces: Plumose structure*

*Joint-filling materials: veins*

**C. Typical occurrence and origin of joints**

*Primary joints in igneous rocks`*

*Joints around Intrusions*

*Joints associated with erosion, exhumation*

*Joints related to faults*

*Joints related to regional folding*