CVL3211 : Quiz 1

Date: September 22, 2016

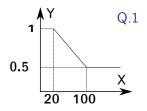
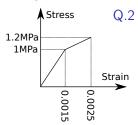


Figure: 1



- a In Figure 1, Y-axis and X-axis denotes σ_A/σ_Y and number of load cycle (n) respectively. Find σ_A for n=25 if $\sigma_y=250MPa$. There is a major flaw in Figure 1, point it out.
- b For Figure 2, find Yield stress from extension method.
- c Find modulus of resilience and toughness for Figure 2.
- a What will happen if diameter of vicat's plunger in standard consistency test is increased?
 Explain.
- b How capillary voids form in cement? How their volume changes with water-cement ratio?
- c Write down compound which contributes most to cement composition. What will happen if its percentage is reduced in cement?