CVL3211 : Quiz 2
Date : November 4, 2016

Q.1   a Given M15 mix with air content 3% and water cement ratio of
          0.5 and specific gravities of cement sand and aggregates are 3,
          2.5 and 2.6 respectively. Find volume of sample without air in
          a compressive strength testing cube.
       b Write down volume balance equation and find cement weight.
       c Find the weight of ingredients in the mix.

Q.2   a If a concrete cube fails at $675KN$ load in compression testing
          what should be its characteristic strength?
       b If another concrete cube fails at $450KN$ which would have
          required more curing to counter heat of hydration? Explain.
       c Another cube tested at $495KN$. Find average compressive
          strength and standard deviation of all three compressive
          strength.