Assignment 9

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1. Which of the following is not a step in the mechanism of shrinkage?
   - 1. It is a process related to capillary water
   - 2. Movement of water from slurry to unhydrated area of CSH
   - 3. Formation of calcium hydroxide in hydrated capillary lenses
   - 4. Fully reversible since no new bonds are formed in the process
   - 2 points

   **Note:**
   - 3 points

2. Which of the following is not a factor affecting shrinkage of concrete?
   - Grade of concrete
   - Aggregate proportion
   - Aggregate humidity
   - Portion of water in mix
   - Workability of concrete
   - 2 points

   **Note:**
   - 3 points

3. For a concrete mix design there are four types of aggregates to choose from. Assuming that the primary criteria is to prevent excessive shrinkage, which of the following aggregates would be the most suitable?
   - App A: 85 MPa
   - App B: 125 MPa
   - App C: 85 MPa
   - App D: 85 MPa
   - 2 points

   **Note:**
   - 3 points

4. In a radially homogenous structure cracks appear:
   - Increases shrinkage
   - Does not interfere with shrinkage in any way
   - Reduces shrinkage
   - Does not result in relaxation
   - 3 points

   **Note:**
   - 3 points

5. A concrete mix has 56 MPa compressive strength at 28 days. At which of the following strengths values is it most likely to exhibit secondary cracks?
   - 33 MPa
   - 42 MPa
   - 34 MPa
   - 12 MPa
   - 2 points

   **Note:**
   - 3 points

6. Shrinkage of concrete is maximum in which of the following conditions?
   - Low w/c, Low aggregate percentage
   - High w/c, Low aggregate percentage
   - Moderate w/c, High aggregate percentage
   - High w/c, High aggregate percentage
   - 0 points

   **Note:**
   - 3 points

7. Press empty out from _______ to _______.
   - Smaller to larger
   - Larger to smaller
   - Depending on the direction of movement
   - Depending on the ambient temperature
   - 2 points

   **Note:**
   - 3 points

8. The most commonly adopted method to measure shrinkage is by measuring:
   - Diameter of the sample
   - Length of the sample
   - Titting out and taking sections of sample
   - Repeating specimen
   - 2 points

   **Note:**
   - 3 points

9. Which of the following are shrinkage cracks?
   - A, B, C
   - B, C, D
   - C, D, E
   - D, E
   - 2 points

   **Note:**
   - 3 points

Due on 2019-10-02, 23:59 IST.