Assignment 4

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

1. Watch the following videos with the aggregate types.
   - A - Isolator
   - B - Sulfate
   - C - Clay minerals
   - D - Silica
   - E - Silica
   - F - Clay
   - G - Sand
   - H - Lime
   - I - Gypse
   - J - Gypse
   - K - Gypse
   - L - Gypse
   - M - Gypse
   - N - Gypse
   - O - Gypse
   - P - Gypse
   - Q - Gypse
   - R - Gypse
   - S - Gypse
   - T - Gypse
   - U - Gypse

   Due on 2019-06-20, 22:59:00 BT.

   1. point

2. The type of rock which has large crystals with well-defined edges is:
   - igneous
   - sedimentary
   - metamorphic
   - pyroclastic

   Due on 2019-06-20, 22:59:00 BT.

   1. point

3. As per the index standards, the maximum limit to use recycled aggregate as a replacement is ______ percentage for plain concrete.

   Due on 2019-06-20, 22:59:00 BT.

   1. point

4. The type of heavy weight aggregate used for radiation shielding is:
   - sand
   - granite
   - basalt
   - dolomite

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   1. point

5. The type of aggregate suggested for use in regime susceptible to wind and which is:
   - coarse
   - fine
   - gravel
   - shale

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   1. point

6. The exoskeleton rock that is susceptible to AAR is:
   - granite
   - marble
   - slate
   - myrtle

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   1. point

7. It is not recommended to use lignosulfonates at high dosages. This is because:
   - may result in excessive retardation of the hydration reaction
   - may cause excessive air entrainment
   - may cause high heat evolution resulting in internal stresses
   - it will feed a fast set

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8. With regards to different water-reducing compounds, identify the incorrect statement:
   - PO4 and Sulfate mixtures can be blended together without any incompatibility issues
   - Lower the molecular weight of the lignosulfonate molecules, higher is its effectiveness
   - the lower molecular weight of the lignosulfonate molecules are close to the presence of chloride ions
   - at a lower molecular weight is due to the leaching of ions and the resulting electrokinetic repulsion

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   1. point

9. Among the following, which of the factors affect the compatibility of a given cement and superplasticizer?

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10. While adding certain superplasticizers during concrete mixing, a delayed addition is required due to its preferential adhesion on C-S-H cement phase. Which among the following superplasticizers requires delayed addition?

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