Assignment 7

Due by 2021-05-01, 23:59.

1. In the context of running stream systems, consider the following statements:
   - Statement 1: The stream opening is used to add material to the stream and its discharge remains constant.
   - Statement 2: The stream opening is used to run the water out of the stream and the discharge remains constant.

   Choose the best alternative among the following:
   - Both statements are true.
   - Statement 1 is true, Statement 2 is not true.
   - Statement 1 is not true, Statement 2 is true.
   - Neither statement is true.

   Consider the following factors in the context of mixture content:
   - Effort working time
   - Longest effluent time
   - Roughness on concrete
   - Remote area

   Which of the following contents does the stream allow for using continuous streams?
   - Roughness on concrete
   - Remote area

2. In a project, the coarse aggregate used is lightweight and porous. As per specification, the coarse aggregate used must have a porosity ranging from 22% to 30% of its volume, with the concrete's strength being determined by the strength of the fine aggregate.

   Consider the following parameters in the context of concrete:
   - Low water content rate
   - High slump value
   - Compaction due to application with high speed
   - Use of retarder to prevent solidification

   Which of the following do not apply to concrete using electric cement?
   - Low water content rate
   - Use of retarder to prevent solidification

3. In the context of using pressurized streams, consider the following statements:
   - Statement 1: Pressurized streams maintain the water's flow, reducing evaporation rates.
   - Statement 2: To avoid contamination, the material in the streams and their conditions are projected on the application surface.

   Choose the best alternative among the following:
   - Both statements are true.
   - Statement 1 is true, Statement 2 is not true.
   - Statement 1 is not true, Statement 2 is true.
   - Neither statement is true.

4. In the context of the use of pressure in concrete, consider the following statements:
   - Proprietary of the concrete's parts depends on the skill of the minister.
   - Very little pressure is imposed hence the overall cost is reduced.

   Choose the best alternative among the following:
   - Both statements are true.
   - Statement 1 is true, Statement 2 is not true.
   - Statement 1 is not true, Statement 2 is true.
   - Neither statement is true.

5. In the context of high strength concrete, consider the following statements:
   - Strength of concrete tends to decrease as the mixture gains of aggregate increases.
   - Aggregate amount used to achieve high strength concrete should probably have high working strength.

   Choose the best alternative among the following:
   - Both statements are true.
   - Statement 1 is true, Statement 2 is not true.
   - Statement 1 is not true, Statement 2 is true.
   - Neither statement is true.

6. In the context of high strength concrete, consider the following statements:
   - High strength concrete has low strength, indicating by low water-to-cement ratio.
   - High strength concrete is available for the finest structures.

   Choose the best alternative among the following:
   - Both statements are true.
   - Statement 1 is true, Statement 2 is not true.
   - Statement 1 is not true, Statement 2 is true.
   - Neither statement is true.

7. In the context of high strength concrete, consider the following statements:
   - High strength concrete has low strength, indicating by low water-to-cement ratio.
   - High strength concrete is available for the finest structures.

   Choose the best alternative among the following:
   - Both statements are true.
   - Statement 1 is true, Statement 2 is not true.
   - Statement 1 is not true, Statement 2 is true.
   - Neither statement is true.

8. In the context of high strength concrete, consider the following statements:
   - High strength concrete has high strength, indicating by high water-to-cement ratio.
   - High strength concrete is available for the finest structures.

   Choose the best alternative among the following:
   - Both statements are true.
   - Statement 1 is true, Statement 2 is not true.
   - Statement 1 is not true, Statement 2 is true.
   - Neither statement is true.