Course outline

Module 1: Overview of Normal Concrete

Module 2: Properties of Normal Concrete
- Lecture 10: Curing
- Lecture 11: Concrete Strength
- Lecture 12: Admixture Treatment

Module 3: Properties of Special Concrete
- Lecture 13: Special Cements
- Lecture 14: Special Additives

Module 4: Special Concretes

Module 5: Special Topics

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Assignment 3

Due on 2021-02-16, 25:58 EST.

The concrete is to identify the assignment has been passed. Your next major project is due in Module 4.

1. In the context of curing of concrete, consider the following statements:
   - Statement 1: Maintaining low from concrete reduces the plastic shrinkage and long-term porosity.
   - Statement 2: Both statements from concrete promote strength development.

   A. Both statements are TRUE.
   B. Statement 1 is TRUE and Statement 2 is FALSE.
   C. Statement 1 is FALSE and Statement 2 is TRUE.
   D. Both statements are FALSE.

   Assignment Answers:
   - Statement 1: True
   - Statement 2: False

2. In the context of curing of concrete, consider the following statement:
   - Statement 1: Not enough is done by providing the concrete surface with water to keep it covered with water during curing.
   - Statement 2: Monitoring curing is used in cases where placing the surface of concrete does not provide enough water due to a high evaporation rate.

   A. Both statements are TRUE.
   B. Statement 1 is TRUE and Statement 2 is FALSE.
   C. Statement 1 is FALSE and Statement 2 is TRUE.
   D. Both statements are FALSE.

   Assignment Answers:
   - Statement 1: False
   - Statement 2: True

3. In light of the provisions in Act 309, consider the following statements about conditions required to consider a period to have met until completion.
   - Statement 1: The average daily air temperature is less than 20°C for more than three consecutive days.
   - Statement 2: The average daily air temperature is not greater than 20°C for more than any 24-hour period.

   A. Both statements are TRUE.
   B. Statement 1 is TRUE and Statement 2 is FALSE.
   C. Statement 1 is FALSE and Statement 2 is TRUE.
   D. Both statements are FALSE.

   Assignment Answers:
   - Statement 1: False
   - Statement 2: True

4. In the context of cold weather curing, consider the following statements:
   - Statement 1: When concrete is to be demolished, it is needed to determine the chemistry of the concrete.
   - Statement 2: In a maintained warm, early hydration of concrete nearly stops, but this does not affect the long-term porosity of the concrete.

   A. Both statements are TRUE.
   B. Statement 1 is TRUE and Statement 2 is FALSE.
   C. Statement 1 is FALSE and Statement 2 is TRUE.
   D. Both statements are FALSE.

   Assignment Answers:
   - Statement 1: True
   - Statement 2: False

5. In the context of cold weather curing, consider the following statements:
   - Statement 1: Concrete with a high degree of saturation has better resistance to freezing than concrete with a low degree of saturation.
   - Statement 2: Concrete present and property can remain in its potential strength despite subsequent exposure to cold weather.

   A. Both statements are TRUE.
   B. Statement 1 is TRUE and Statement 2 is FALSE.
   C. Statement 1 is FALSE and Statement 2 is TRUE.
   D. Both statements are FALSE.

   Assignment Answers:
   - Statement 1: True
   - Statement 2: False

6. Consider the following difficulties in concrete:
   - Premixed plastic shrinkage
   - Leveling slump
   - Increased water demand
   - Premature of solid parts

   Which of the above phenomena is caused by concrete cracking?

   A. Only a
   B. Only b
   C. Only a, b, c
   D. a, b, c, d

   Assignment Answers:
   - c

7. Which of the following is NOT associated with a deleterious weather condition?
   - High temperature conditions
   - Low relative humidity
   - Low wind speed
   - High amounts of solar radiation

   A. Only a
   B. Only b
   C. Only a, c
   D. a, b, c, d

   Assignment Answers:
   - d

8. If the strength of concrete determined in the laboratory is expressed in terms of concrete as placed using electronics, which even of the following is present?

   A. The specimen should be properly loaded by hand with each end loaded.
   B. The specimen should be constrained using a form or plastic and loaded under water.
   C. The specimen should be not artificially compressed and loaded under water.
   D. The specimen should be not artificially compressed and loaded using a compaction method as may be essential of the site.

   Assignment Answers:
   - c