

**GEOGRAPHIC INFORMATION SYSTEMS  
GEOGRAPHIC INFORMATION CENTER  
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**\*\*\* EXAMINATION \*\*\***

**CURING OF HIGH-PERFORMANCE CONCRETE FOR  
STRENGTH: WHAT IS SUFFICIENT?**

1. **Concrete that conforms to a set of standards above those**
  - a) of the common application is stamped concrete
  - b) of the common application is self-consolidating concrete
  - c) of the common application is high strength concrete
  - d) of the common application is high performance concrete
2. **The ratio of weight of water to the weight of cement used**
  - a) in a concrete mix is called thrust-to-weight ratio
  - b) in a concrete mix is called overall pressure ratio
  - c) in a concrete mix is called water-cement ratio
  - d) in a concrete mix is called wetted aspect ratio
3. **The process by which the concrete dries itself from the**
  - a) inside is self-hydration
  - b) inside is self-desiccation
  - c) inside is self-compression
  - d) inside is self-convection
4. **A fine grain, thin and very high surface area, is**
  - a) silica fume
  - b) fused silica
  - c) mesoporous silica
  - d) hydrophobic silica
5. **Modulus rupture, the mechanical parameter for brittle**
  - a) material, is also called flexural strength
  - b) material, is also called compressive strength
  - c) material, is also called yield strength
  - d) material, is also called shear strength
6. **The capacity of a material to withstand axially directed**
  - a) pushing forces is flexural strength
  - b) pushing forces is compressive strength
  - c) pushing forces is yield strength
  - d) pushing forces is shear strength

7. **The process of keeping concrete under a specific environmental**
- a) condition until completion of hydration is drying
  - b) condition until completion of hydration is mixing
  - c) condition until completion of hydration is curing
  - d) condition until completion of hydration is bending
8. **A workable paste used to bind construction blocks together**
- a) and fill the gaps between them is trass
  - b) and fill the gaps between them is wythe
  - c) and fill the gaps between them is cast
  - d) and fill the gaps between them is mortar
9. **The amount of water vapor that exists in a gaseous mixture**
- a) of air and water vapor is called relative humidity
  - b) of air and water vapor is called lifted index
  - c) of air and water vapor is called specific humidity
  - d) of air and water vapor is called heat index
10. **A saturated calcium hydroxide solution is commonly called**
- a) limestone
  - b) limewater
  - c) limesulfur
  - d) jennite
11. **The numerically distant observation from the rest of the**
- a) data is an ogive
  - b) data is a testimator
  - c) data is an outlier
  - d) data is an univariate
12. **Some aspect of the statistical behavior of a set of data is**
- a) formally described by the working hypothesis
  - b) formally described by the alternative hypothesis
  - c) formally described by the statistical hypothesis
  - d) formally described by the null hypothesis
13. **A particular kind of estimate of a population**
- a) parameter is the confidence interval
  - b) parameter is the tolerance interval
  - c) parameter is the prediction interval
  - d) parameter is the credible interval
14. **The first type of regression analysis to be studied**
- a) rigorously is segmented regression
  - b) rigorously is linear regression
  - c) rigorously is stepwise regression
  - d) rigorously is robust regression

15. **The graphical technique for comparing two data sets is**
- a) a recurrence plot
  - b) a scatter plot
  - c) a probability plot
  - d) a funnel plot
16. **The algebraically more tractable and widely used measure of**
- a) of the variability or dispersion is absolute deviation
  - b) of the variability or dispersion is squared deviation
  - c) of the variability or dispersion is average deviation
  - d) of the variability or dispersion is standard deviation
17. **The normalized measure of dispersion of a probability**
- a) distribution is the coefficient of friction
  - b) distribution is the coefficient of viscosity
  - c) distribution is the coefficient of thermal expansion
  - d) distribution is the coefficient of variation
18. **The useful alternatives to mole fractions when dealing with**
- a) mixtures are dyadic fractions
  - b) mixtures are continued fractions
  - c) mixtures are volume fractions
  - d) mixtures are complex fractions
19. **The formal long document submitted as a requirement for a**
- a) degree is a narration
  - b) degree is a dissertation
  - c) degree is a formulation
  - d) degree is a composition
20. **When carbon dioxide is dissolved in water or an aqueous**
- a) solution, a carbonation occurs
  - b) solution, a diffusion occurs
  - c) solution, a deterioration occurs
  - d) solution, a radiation occurs

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I hereby certify that I studied the course materials, and the above answers are my own. No one has helped me to complete this exam.

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