TRIAD ENGINEERING, INC.

Name:_____Date_____

Slump Test Quiz

Section A: Multiple Choice (1 point each)

1. What is the primary purpose of a slump test?
A. Measure the compressive strength of concrete
B. Determine the amount of cement in a mix
C. Assess the workability and consistency of fresh concrete
D. Test the curing time of concrete

2. Which property most directly influences the slump of concrete?
A. Cement fineness
B. Water-cement ratio
C. Aggregate color
D. Ambient temperature

3. What is the standard height of the slump cone?
A. 150 mm
B. 200 mm
C. 250 mm
D. 300 mm

4. A concrete mix that retains its shape without slumping at all is classified as:
A. True slump
B. Collapse slump
C. Zero slump
D. Shear slump

5. A collapse slump usually indicates that the mix is:
A. Too dry
B. Perfectly mixed
C. Too wet or overly fluid
D. Low in cement content

6. What is the typical number of layers used when filling the slump cone?
A. One
B. Two
C. Three
D. Four

7. Each layer in the slump cone should be tamped how many times?
A. 10
B. 15
C. 20
D. 25

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8. Which of the following admixtures can increase slump without adding water?
A. Air-entraining agent
B. Retarder
C. Superplasticizer
D. Accelerator

9. Which of the following best describes a *shear slump*?
A. Concrete slumps uniformly
B. Concrete flattens completely
C. Concrete slips sideways or tilts
D. Concrete does not slump at all

10. In which situation would a low slump (0–25 mm) be most acceptable?
A. A bridge pier with dense reinforcement
B. A concrete pavement slab
C. A precast column
D. A high-rise elevator shaft

Section B: True or False (1 point each)

11. The slump test provides a direct measure of concrete strength.
True / False

12. The slump test is suitable for very dry or roller-compacted concrete.
True / False

13. A consistent slump across batches usually indicates good quality control.
True / False

14. The slump test is influenced by the shape and texture of the aggregate.
True / False

15. Slump values are typically measured in kilograms per cubic meter.
True / False