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## CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q41-Q46):

### NEW QUESTION # 41

Which of the following tests would most likely be used to determine if engineered fill was placed to meet contract specifications?

- A. Triaxial compression test
- **B. Compaction test**
- C. Sieve analysis
- D. Moisture content check

**Answer: B**

Explanation:

Engineered fill specifications are typically written in terms of minimum relative compaction (RC) and an acceptable moisture range (often around optimum moisture content). Field verification therefore focuses on whether placed lift material achieves the specified in-place dry density relative to the laboratory maximum dry density (from Proctor testing). The compaction test (field density test) directly measures whether the fill meets the specified RC requirement. Civil engineering references describe that grading specifications set a minimum acceptable density (relative compaction) and acceptable water content range, and that the Proctor test establishes the laboratory maximum dry density and optimum moisture content used as the basis for compaction acceptance. Moisture checks alone do not confirm achieved density; sieve analysis is gradation, and triaxial testing is shear strength characterization rather than placement acceptance. Therefore, the most appropriate test to confirm engineered fill meets contract compaction requirements is a compaction test.

### NEW QUESTION # 42

Based on the diagram below, what is the percentage slope between D1 and C2 if the grid is  $10\text{ m} \times 10\text{ m}$ ?

- **A. 6.79%**
- B. 5.73%
- C. 3.04%
- D. 8.10%

**Answer: A**

Explanation:

Percent slope is computed as:

This is the standard civil engineering definition of grade/slope used in surveying, drainage, and roadway work. With a  $10\text{ m} \times 10\text{ m}$  grid, the plan distance between two grid points is determined from the grid spacing (10 m increments). Using the elevations/contours shown at points D1 and C2, the elevation difference divided by the plan distance yields a slope that matches 6.79%. This corresponds to a rise/fall of roughly 0.679 m per 10 m of horizontal distance (or an equivalent ratio based on the exact D1-C2 spacing in the grid), which is consistent with the computed percent. Therefore, the correct selection is 6.79% (Option A).

### NEW QUESTION # 43

What is the main reason for taking handwritten notes while surveying?

- **A. To make a permanent record of survey results**
- B. To prepare invoices
- C. To create a topographic map
- D. To protect from litigation with the employer

**Answer: A**

Explanation:

Survey work depends on traceable, reproducible observations. Handwritten field notes (field book entries, sketches, stationing, and

benchmark ties) function as the primary record of what was measured, under what conditions, and how control was established. Lindeburg describes that elevations of temporary benchmarks are generally found in field notes and local official filings, reflecting that field notes are treated as an enduring record used later for computations, verification, and re-establishment of control. This is why good surveying practice emphasizes complete notes, clear sketches, and unambiguous identification of points—so results can be checked, recalculated, and defended long after the crew leaves site. While survey data supports mapping and may indirectly support disputes, the fundamental purpose of handwritten notes is to create a permanent, auditable record of survey results and control ties.

#### NEW QUESTION # 44

A cologist is required to inspect the installation of a sanitary service pipe to confirm the slope. The technologist measures an elevation of 705.667 at the end of the service and 705.202 at the main. The horizontal measurement from the main to the end of the service is 22.10 m. What is the slope of the pipe?

- A. 2.1%
- B. 2.0%
- C. 2.5%
- D. 1.5%

**Answer: A**

Explanation:

Pipe slope is computed as rise (or fall) divided by run, expressed as a percent:

This matches standard civil engineering definitions of grade/slope as elevation change over horizontal distance.

Here, the elevation drop from the service end to the main is  $705.667 - 705.202 = 0.465$  m.

Horizontal distance (run) = 22.10 m.

Slope =  $0.465 / 22.10 = 0.02104 = 2.104\%$ , which rounds to 2.1%.

This calculation reflects standard practice used in roadway and pipeline work for checking grades, confirming that installed utilities meet design slopes for gravity flow. The answer choice that matches the computed slope is 2.1% (Option A).

#### NEW QUESTION # 45

What is the bearing capacity of soil?

- A. Highest pressure of force that foundation soil can withstand before crumbling
- B. Maximum pressure that soil can withstand without undergoing shear failure
- C. Highest concentrated load applied to soil for maximum compaction
- D. Maximum concentrated load that soil can take under pressure

**Answer: B**

Explanation:

In foundation engineering, "bearing capacity" refers to the maximum bearing pressure that soil can support under a foundation without a shear failure mechanism developing in the ground, and (in allowable/safe terms) without causing excessive settlement. In practice, design is based on allowable bearing capacity

/allowable bearing pressure, which is the net pressure (beyond overburden) that will not cause shear failure or excessive settlements, after applying an appropriate factor of safety. This concept is tied to classic bearing-capacity theories (e.g., Terzaghi) that predict shear failure along defined surfaces beneath a footing.

Therefore, the best definition among the options is the one referencing maximum pressure without shear failure, not a "concentrated load," compaction, or "crumbling."

#### NEW QUESTION # 46

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